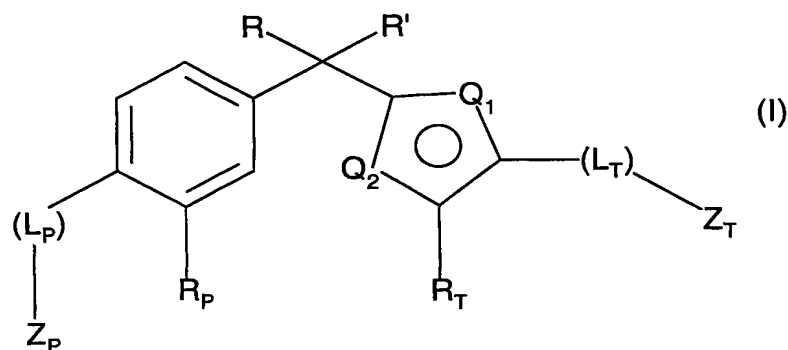


-375-

WE CLAIM:

1. A method of treating a mammal to prevent or alleviate the effect of Mustard by
 5 administering a pharmaceutically effective amount of a compound represented by
 formula I or a pharmaceutically acceptable salt or a prodrug derivative thereof:



wherein;

- 10 R and R' are independently C₁-C₅ alkyl, C₁-C₅ fluoroalkyl, or together R and R' form a substituted or unsubstituted, saturated or unsaturated carbocyclic ring having from 3 to 8 carbon atoms;

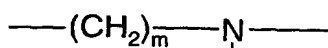
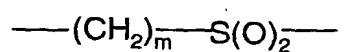
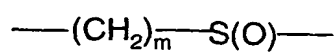
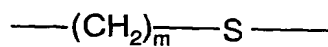
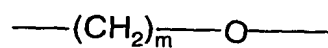
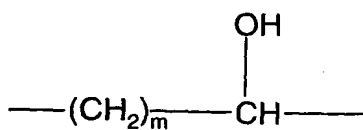
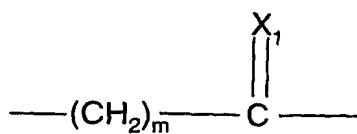
Ring atoms Q₁ and Q₂ are independently selected from carbon or sulfur, with the proviso that one atom is sulfur and the other atom is carbon;

- 15 R_p and R_t are independently selected from the group consisting of hydrogen, halo, C₁-C₅ alkyl, C₁-C₅ fluoroalkyl, -O-C₁-C₅ alkyl, -S-C₁-C₅ alkyl, -O-C₁-C₅ fluoroalkyl, -CN, -NO₂, acetyl, -S-C₁-C₅ fluoroalkyl, C₂-C₅ alkenyl, C₃-C₅ cycloalkyl, and C₃-C₅ cycloalkenyl;

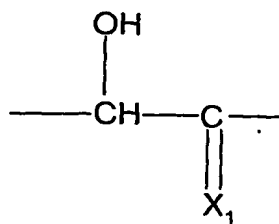
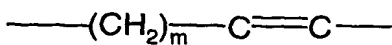
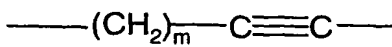
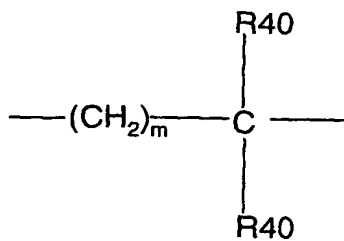
- (L_p) and (L_t) are divalent linking groups independently selected from the group
 20 consisting of

-376-

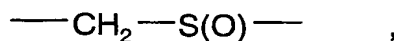
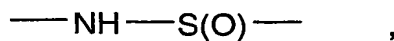
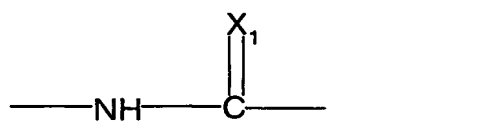
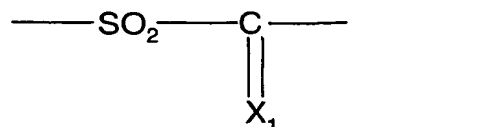
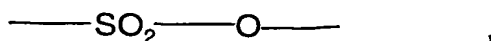
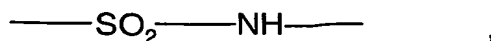
a bond



R40



-377-



5

where m is 0, 1 or 2, X₁ is oxygen or sulfur, and each R₄₀ is independently hydrogen or C₁-C₅ alkyl or C₁-C₅ fluoroalkyl;

Z_P and Z_T are independently selected from

10

-hydrogen,

-phenyl,

-benzyl,

-fluorophenyl,

-(C₁-C₅ alkyl),

-(C₂-C₅ alkenyl),

15

-(C₃-C₅ cycloalkyl),

-(C₃-C₅ cycloalkenyl),

-(C₁-C₅ hydroxyalkyl),

-(C₁-C₅ fluoroalkyl),

-(C₁-C₅ alkyl)-phenyl,

-378-

-(C₁-C₅ alkyl)-O-(C₁-C₅) alkyl,
 -(C₁-C₅ alkyl)-NH₂,
 -(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
 5 -(C₁-C₅ alkyl)-C(O)-NH₂,
 -(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
 -(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
 10 -(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
 -(C₁-C₅ alkyl)-N-pyrrolidine,
 -(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),
 -(C₁-C₅ alkyl)-C(O)-(O-C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-C(O)-OH,
 15 -(C₁-C₅ alkyl)-5-tetrazolyl,
 -(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,
 -(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-SO₂-NH₂,
 -(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
 20 -(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
 -(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-S(O)-NH₂,
 -(C₁-C₅ alkyl)-S(O)-NH-(C₁-C₅ alkyl),
 25 -(C₁-C₅ alkyl)-S(O)-N-(C₁-C₅ alkyl)₂,
 -(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
 -(C₁-C₅ alkyl)-N(C(O)(C₁-C₅ alkyl)CH₂C(O)OH,
 -(C₁-C₅ alkyl)-N(C(O)(C₁-C₅ alkyl)CH₂C(O)-(C₁-C₅
 alkyl),
 30
 -CH(OH)-(C₁-C₅ alkyl)
 -CH(OH)-(C₂-C₅ alkenyl),

-379-

- 5
- CH(OH)-(C₃-C₅ cycloalkyl),
 - CH(OH)-(C₃-C₅ cycloalkenyl),
 - CH(OH)-(C₁-C₅ hydroxyalkyl),
 - CH(OH)-(C₁-C₅ fluoroalkyl),
 - CH(OH)-phenyl
 - CH(OH)-5-tetrazolyl,
 - CH(OH)-(1-methylpyrrolidin-2-one-3-yl),
- 10
- C(O)-(C₁-C₅ alkyl),
 - C(O)-(C₁-C₅ alkyl)-C(O)OH,
 - C(O)-(C₁-C₅ alkyl)-C(O)(O-C₁-C₅ alkyl),
 - C(O)-(C₂-C₅ alkenyl),
 - C(O)-(C₃-C₅ cycloalkyl),
 - C(O)-(C₃-C₅ cycloalkenyl),
- 15
- C(O)-(C₁-C₅ hydroxyalkyl),
 - C(O)-(C₁-C₅ fluoroalkyl),
 - C(O)-(C₁-C₅ alkyl)-phenyl
 - C(O)-O-(C₁-C₅ alkyl),
 - C(O)-O-(C₂-C₅ alkenyl),
- 20
- C(O)-O-(C₃-C₅ cycloalkyl),
 - C(O)-O-(C₃-C₅ cycloalkenyl),
 - C(O)-O-(C₁-C₅ hydroxyalkyl),
 - C(O)-O-(C₁-C₅ fluoroalkyl),
 - C(O)-O-(C₁-C₅ alkyl)-phenyl,
- 25
- C(O)-NH₂,
 - C(O)-NH(OH),
 - C(O)-NH-(C₁-C₅ alkyl),
 - C(O)-N-(C₁-C₅ alkyl)₂,
 - C(O)-NH-(C₂-C₅ alkenyl),
- 30
- C(O)-NH-(C₃-C₅ cycloalkyl),
 - C(O)-NH-(C₃-C₅ cycloalkenyl),
 - C(O)-NH-(C₁-C₅ fluoroalkyl),

-380-

5
10
15
20
25
30

-C(O)-NH-(C₁-C₅ alkyl)-phenyl,
-C(O)-NH-SO₂-(C₁-C₅ alkyl),
-C(O)-NH-SO₂-(C₂-C₅ alkenyl),
-C(O)-NH-SO₂-(C₃-C₅ cycloalkyl),
-C(O)-NH-SO₂-(C₃-C₅ cycloalkenyl),
-C(O)-NH-S(O)-(C₁-C₅ alkyl),
-C(O)-NH-S(O)-(C₂-C₅ alkenyl),
-C(O)-NH-S(O)-(C₃-C₅ cycloalkyl),
-C(O)-NH-S(O)-(C₃-C₅ cycloalkenyl),
-C(O)-NH-(C₁-C₅ fluoroalkyl),
-C(O)-NH-(C₁-C₅ alkyl)-phenyl
-C(O)-NH-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
-C(O)-NH-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
-C(O)-NH-CH₂-C(O)OH
-C(O)-NH-CH₂-C(O)-(O-C₁-C₅ alkyl),
-C(O)-N-(C₁-C₅ alkyl)(C(O)OH),
-C(O)-N-(C₁-C₅ alkyl)(C(O)-(O-C₁-C₅ alkyl)),
-C(O)-NH-CH((CH₂)(CO₂H))(CO₂H),
-C(O)-NH-CH((CH₂)(C(O)-(C₁-C₅ alkyl)))(C(O)-(O-C₁-C₅ alkyl)),
-C(O)-NH-CH((CH₂OH)(CO₂H)),
-C(O)-NH-CH((CH₂OH)(C(O)(O-C₁-C₅ alkyl))),
-C(O)-NH-C((C₁-C₅ alkyl)(C₁-C₅ alkyl))(CO₂H),
-C(O)-NH-C((C₁-C₅ alkyl)(C₁-C₅ alkyl))(C(O)-(O-C₁-C₅ alkyl)),
-C(O)-NH-5-tetrazolyl,
-C(O)-N-pyrrolidin-2-one,
-C(O)-N-pyrrolidine,
-C(O)-(1-methylpyrrolidin-2-one-3-yl),
-C(O)-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
-C(O)-(C₁-C₅ alkyl)-N-pyrrolidine,
-C(O)-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),

-381-

- 5
10
15
20
25
30
- C(O)-N-pyrrolidin-2-(CO₂H),
 - C(O)-N-pyrrolidin-2-(C(O)-(O-C₁-C₅ alkyl)),
 - C(O)-N-(C(O)-(C₁-C₅ alkyl))CH₂(CO₂H),
 - C(O)-N-(C(O)-(C₁-C₅ alkyl))CH₂(C(O)-(O-C₁-C₅ alkyl)),
 - C(O)-N-(C₁-C₅ alkyl)CH₂(CO₂H),
 - C(O)-C(O)-OH,
 - C(O)-C(O)-(C₁-C₅ alkyl),
 - C(O)-C(O)-(C₂-C₅ alkenyl),
 - C(O)-C(O)-(C₃-C₅ cycloalkyl),
 - C(O)-C(O)-(C₃-C₅ cycloalkenyl),
 - C(O)-C(O)-(C₁-C₅ hydroxyalkyl),
 - C(O)-C(O)-(C₁-C₅ fluoroalkyl),
 - C(O)-C(O)-(C₁-C₅ alkyl)-phenyl,
 - C(O)-C(O)-NH₂,
 - C(O)-C(O)-NH-(C₁-C₅ alkyl),
 - C(O)-C(O)-N-(C₁-C₅ alkyl)₂,
 - C(O)-C(O)-5-tetrazolyl,
 - C(O)-C(O)-N-pyrrolidin-2-one,
 - C(O)-C(O)-N-pyrrolidine,
 - C(O)-C(O)-(1-methylpyrrolidin-2-one-3-yl),
 - O-(C₁-C₅ alkyl),
 - O-(C₂-C₅ alkenyl),
 - O-(C₃-C₅ cycloalkyl),
 - O-(C₃-C₅ cycloalkenyl),
 - O-(C₁-C₅ hydroxyalkyl),
 - O-(C₁-C₅ fluoroalkyl),
 - O-(C₁-C₅ alkyl)-phenyl,
 - O-(C₁-C₅ alkyl)-(O)-(C₁-C₅ alkyl),
 - O-(C₁-C₅ alkyl)NH₂,
 - O-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl)₂,

-382-

- 5
- O-(C₁-C₅ alkyl)-C(O)-NH₂,
-O-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
-O-(C₁-C₅ alkyl)-C(O)-OH,
-O-(C₁-C₅ alkyl)-C(O)-NH-5-tetrazolyl,
-O-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-C(O)-(O-C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-NH₂,
-O-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
10 -O-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
-O-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
-O-(C₁-C₅ alkyl)-N-pyrrolidine,
-O-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),
15 -O-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-SO₂-NH₂,
-O-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
-O-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
20 -O-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-S(O)-NH₂,
-O-(C₁-C₅ alkyl)-S(O)-NH-(C₁-C₅ alkyl),
-O-(C₁-C₅ alkyl)-S(O)-N-(C₁-C₅ alkyl)₂,
-O-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
25 -O-(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,
-O-(C₁-C₅ alkyl)-5-tetrazolyl,
-O-CH₂-CO₂H,
-O-CH₂-5-tetrazolyl,
-O-(C₁-C₅ alkyl),
30 -O-C(O)-NH₂,
-O-C(O)-N-(CH₃)₂,
-O-C(S)-N-(CH₃)₂,

-383-

- O-C(O)-O-(C₁-C₅ alkyl),
 -O-(5-tetrazolyl),
 -O-SO₂-(C₁-C₅ alkyl),
 -O-SO₂-NH₂,
 5 -O-SO₂-NH-(C₁-C₅ alkyl),
 -O-SO₂-N-(C₁-C₅ alkyl)₂,
 -O-S(O)-(C₁-C₅ alkyl),
 -O-S(O)-NH₂,
 10 -O-S(O)-NH-(C₁-C₅ alkyl),
 -O-S(O)-N-(C₁-C₅ alkyl)₂,
- S-(C₁-C₅ alkyl),
 -S-(C₂-C₅ alkenyl),
 -S-(C₃-C₅ cycloalkyl),
 15 -S-(C₃-C₅ cycloalkenyl),
 -S-(C₁-C₅ fluoroalkyl),
 -S-(C₁-C₅ hydroxyalkyl),
 -S-(C₁-C₅ alkyl)-phenyl,
 -S-(C₁-C₅ alkyl)-O-(C₁-C₅ alkyl),
 20 -S-(C₁-C₅ alkyl)-C(O)-OH,
 -S-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-C(O)-O-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-C(O)-NH₂,
 -S-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
 25 -S-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
 -S-(C₁-C₅ alkyl) NH₂,
 -S-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
 -S-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
 30 -S-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
 -S-(C₁-C₅ alkyl)-N-pyrrolidine,
 -S-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),

-384-

- 5 -S-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-SO₂-NH₂,
 -S-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
 -S-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,
 -S-(C₁-C₅ alkyl)-5-tetrazolyl,
 -S-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
10 -S-(C₁-C₅ alkyl)-S(O)-NH₂,
 -S-(C₁-C₅ alkyl)-S(O)-NH-(C₁-C₅ alkyl),
 -S-(C₁-C₅ alkyl)-S(O)-N-(C₁-C₅ alkyl)₂,
 -S-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),

15 -SO₂-(C₁-C₅ alkyl),
 -SO₂-(C₂-C₅ alkenyl),
 -SO₂-(C₃-C₅ cycloalkyl),
 -SO₂-(C₃-C₅ cycloalkenyl),
 -SO₂-(C₁-C₅ hydroxyalkyl),
 -SO₂-(C₁-C₅ fluoroalkyl),
20 -SO₂-(C₁-C₅)-phenyl,

 -SO₂-NH₂,
 -SO₂-NH-(C₁-C₅ alkyl),
 -SO₂-NH-CH₂-C(O)OH,
25 -SO₂-NH-CH₂-C(O)(O-C₁-C₅ alkyl),
 -SO₂-NH-(C₁-C₅ alkyl)-C(O)OH,
 -SO₂-NH-(C₁-C₅ alkyl)-C(O)(O-C₁-C₅ alkyl),
 -SO₂-NHC(O)-(C₃-C₆ cycloalkyl),

30 -SO₂-NH-C(O)-(C₁-C₅ alkyl),
 -SO₂-N-(C₁-C₅ alkyl)₂,
 -SO₂-(C₁-C₅ alkyl)-O-(C₁-C₅ alkyl),

-385-

- SO₂-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl) NH₂,
 -SO₂-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
 -SO₂-(C₁-C₅ alkyl)-C(O)-NH₂,
 -SO₂-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
 -SO₂-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
 -SO₂-(C₁-C₅ alkyl)-N-pyrrolidine,
 -SO₂-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),
 -SO₂-(C₁-C₅ alkyl)-C(O)-O-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-C(O)-OH,
 -SO₂-(C₁-C₅ alkyl)-5-tetrazolyl,
 -SO₂-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-SO₂-NH₂,
 -SO₂-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
 -SO₂-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
 -SO₂-(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,
 -SO₂-(C₁-C₅ alkyl),
 -SO₂-(C₂-C₅ alkenyl),
 -SO₂-(C₃-C₅ cycloalkyl),
 -SO₂-(C₃-C₅ cycloalkenyl),
 -SO₂-(C₁-C₅ hydroxyalkyl),
 -SO₂-(C₁-C₅ fluoroalkyl),
 -SO₂-(C₁-C₅)-phenyl,
 -SO₂-N=CHN(C₁-C₅ alkyl)₂,
 -S(O)-NH₂,
 -S(O)-NH-(C₁-C₅ alkyl),
 -S(O)-NH-CH₂-C(O)OH

-386-

5
10
15
20
25
30

-S(O)-NH-(C₁-C₅ alkyl)-C(O)OH,
-S(O)-NH-CH₂-C(O)(O-C₁-C₅ alkyl),
-S(O)-NH-(C₁-C₅ alkyl)-C(O)(O-C₁-C₅ alkyl),
-S(O)HC(O)-(C₃-C₆ cycloalkyl),
-S(O)-NH-C(O)-(C₁-C₅ alkyl),
-S(O)-N-(C₁-C₅ alkyl)₂,
-S(O)-(C₁-C₅ alkyl)-O-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-C(O)-(O-C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
-S(O)-(C₁-C₅ alkyl)-C(O)-NH₂,
-S(O)-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
-S(O)-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-NH-S(O)-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
-S(O)-(C₁-C₅ alkyl)-N-pyrrolidine,
-S(O)-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),
-S(O)-(C₁-C₅ alkyl)-C(O)-(O-C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-C(O)-OH,
-S(O)-(C₁-C₅ alkyl)-5-tetrazolyl,
-S(O)-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-SO₂-NH₂,
-S(O)-(C₁-C₅ alkyl)-S(O)-NH₂,
-S(O)-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-S(O)-NH-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
-S(O)-(C₁-C₅ alkyl)-S(O)-N-(C₁-C₅ alkyl)₂,
-S(O)-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),
-S(O)-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),

-387-

-S(O)-(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,-S(O)-N=CHN(C₁-C₅ alkyl)₂,-NHC(S)NH₂,

5

-NHC(S)NH-(C₁-C₅ alkyl),-NHC(S)N-(C₁-C₅ alkyl)₂,-NHC(S)NH-(C₂-C₅ alkenyl),-NHC(S)NH-(C₃-C₅ cycloalkyl),-NHC(S)NH-(C₃-C₅ cycloalkenyl),

10

-NHC(S)NH-(C₁-C₅ fluoroalkyl),-NHC(S)NH-C₁-C₅ hydroxyalkyl,-NHC(S)NH-(C₁-C₅ fluoroalkyl)

-NHC(S)NH-phenyl,

-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-OH,

15

-NHC(S)NH-(C₁-C₅ alkyl)-O-(C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-(O-C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-NH₂,-NHC(S)NH-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),

20

-NHC(S)NH-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-NH₂,-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,-NHC(S)NH-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),

25

-NHC(S)NH-(C₁-C₅ alkyl)-NH-S(O)-(C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,-NHC(S)NH-(C₁-C₅ alkyl)-N-pyrrolidine,-NHC(S)NH-(C₁-C₅ alkyl)-(1-methylpyrrolidin-2-one-3-yl),

30

-NHC(S)NH-(C₁-C₅ alkyl)-5-tetrazolyl,-NHC(S)NH-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),-NHC(S)NH-(C₁-C₅ alkyl)-SO₂-NH₂,

-388-

-NHC(S)NH-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),
-NHC(S)NH-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,
-NHC(S)NH-(C₁-C₅ alkyl)-S(O)-(C₁-C₅ alkyl),
-NHC(S)NH-(C₁-C₅ alkyl)-S(O)-NH₂,
-NHC(S)NH-(C₁-C₅ alkyl)-S(O)-NH-(C₁-C₅ alkyl),
-NHC(S)NH-(C₁-C₅ alkyl)-S(O)-N-(C₁-C₅ alkyl)₂,
-NHC(S)NH-(C₁-C₅ alkyl)-P(O)-(O-C₁-C₅ alkyl)₂,

-NHC(O)NH₂,
-NHC(O)NH-(C₁-C₅ alkyl),
-NHC(O)N-(C₁-C₅ alkyl)₂,
-NHC(O)NH-(C₂-C₅ alkenyl),
-NHC(O)NH-(C₃-C₅ cycloalkyl),
-NHC(O)NH-(C₃-C₅ cycloalkenyl),
-NHC(O)NH-(C₁-C₅ hydroxyalkyl),
-NHC(O)NH-(C₁-C₅ fluoroalkyl),
-NHC(O)NH-phenyl,

-NHC(O)NH-(C₁-C₅ alkyl)-NH₂,
-NHC(O)NH-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
-NHC(O)NH-(C₁-C₅ alkyl)-O-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-NH₂,
-NHC(O)NH-(C₁-C₅ alkyl)-NH-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-N-(C₁-C₅ alkyl)₂,
-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-NH₂,
-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-NH-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-N-(C₁-C₅ alkyl)₂,
-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-NH-SO₂-(C₁-C₅ alkyl),
-NHC(O)NH-(C₁-C₅ alkyl)-N-pyrrolidin-2-one,
-NHC(O)NH-(C₁-C₅ alkyl)-N-pyrrolidine,
-NHC(O)NH-(C₁-C₅ alkyl)-

-389-

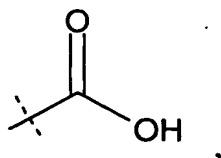
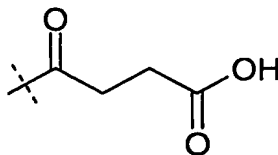
(1-methylpyrrolidin-2-one-3-yl),

-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-OH,-NHC(O)NH-(C₁-C₅ alkyl)-C(O)-O-(C₁-C₅ alkyl),-NHC(O)NH-(C₁-C₅ alkyl)-5-tetrazolyl,-NHC(O)NH-(C₁-C₅ alkyl)-SO₂-(C₁-C₅ alkyl),-NHC(O)NH-(C₁-C₅ alkyl)-SO₂-NH₂,-NHC(O)NH-(C₁-C₅ alkyl)-SO₂-NH-(C₁-C₅ alkyl),-NHC(O)NH-(C₁-C₅ alkyl)-SO₂-N-(C₁-C₅ alkyl)₂,-NHC(O)NH-(C₁-C₅ alkyl)-P(O)-O-(C₁-C₅ alkyl)₂,-NH₂,-NH-(C₁-C₅ alkyl),-NH-CH₂-C(O)OH,-N-(C₁-C₅ alkyl)₂,-NH-C(O)-NH₂,-NH-C(O)-NH-(C₁-C₅ alkyl),-NH-C(O)-N-(C₁-C₅ alkyl)₂,-NH-C(O)-(C₁-C₅ alkyl),-NH-SO₂-(C₁-C₅ alkyl),-NH-S(O)-(C₁-C₅ alkyl),-N(CH₃)(OCH₃),-N(OH)(CH₃),

-N-pyrrolidin-2-one,

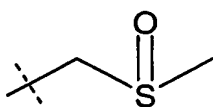
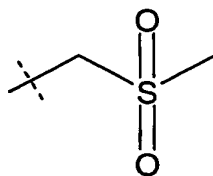
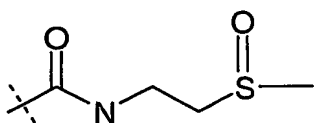
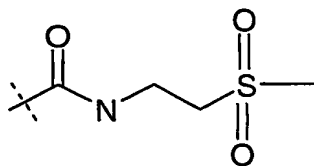
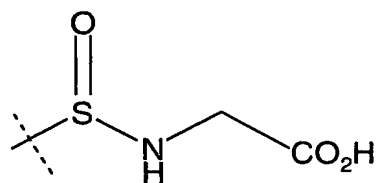
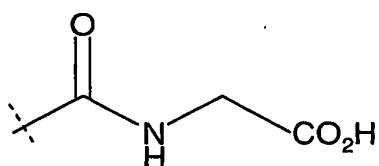
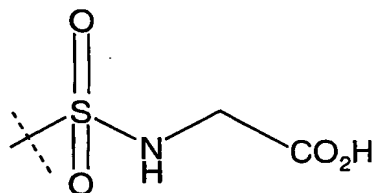
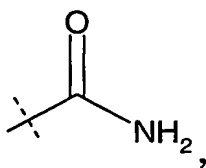
-N-pyrrolidine,

-(1-methylpyrrolidin-2-one-3-yl),

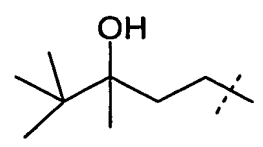
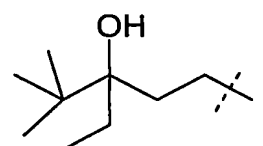
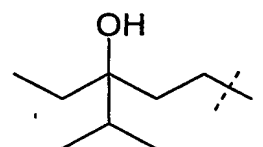
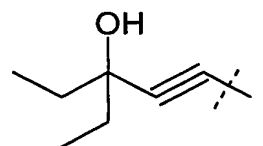
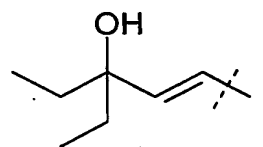
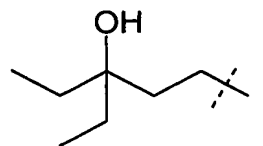
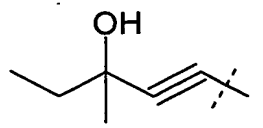
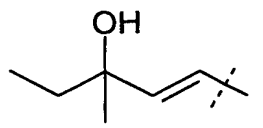
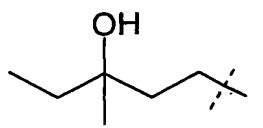


-390-

4



-391-



5

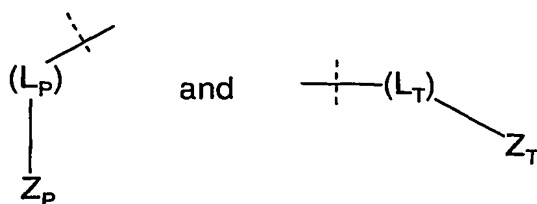
10

1-hydroxycyclopentenyl,
1-hydroxycyclohexenyl,

-392-

1-hydroxycycloheptenyl,
 1-hydroxycyclooctenyl,
 1-hydroxycyclopropyl,
 1-hydroxycyclobutyl,
 5 1-hydroxycyclopentyl,
 1-hydroxycyclohexyl,
 1-hydroxycycloheptyl,
 1-hydroxycyclooctyl,
 -5-tetrazolyl,
 10 -carboxyl,
 -OH,
 -I,
 -Br
 -Cl
 15 -F,
 -CHO,
 -NO₂,
 -CN,
 sulfonamide,
 20 sulfinamide,
 urethane-type radical, or
 (Acidic Group);

provided that the combined groups of formula I represented by

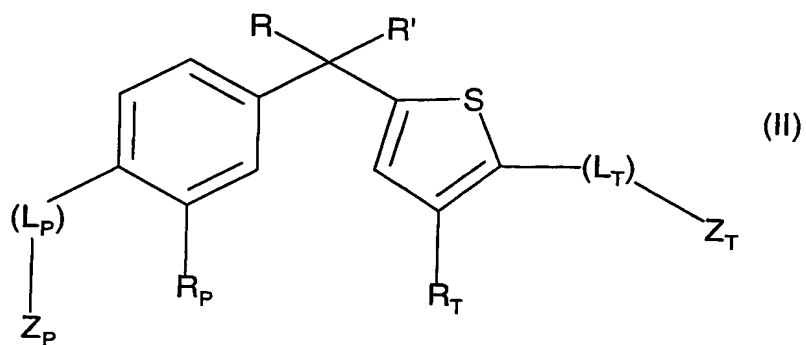


25 may both be lipophilic, or either one may be lipophilic and the other one polar; but both combined groups may not be polar.

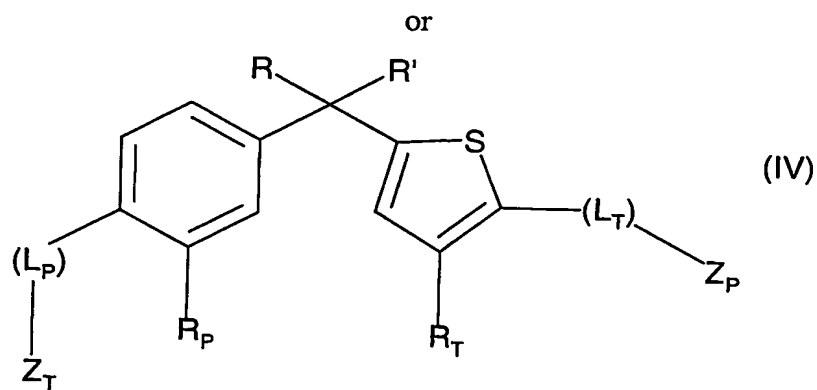
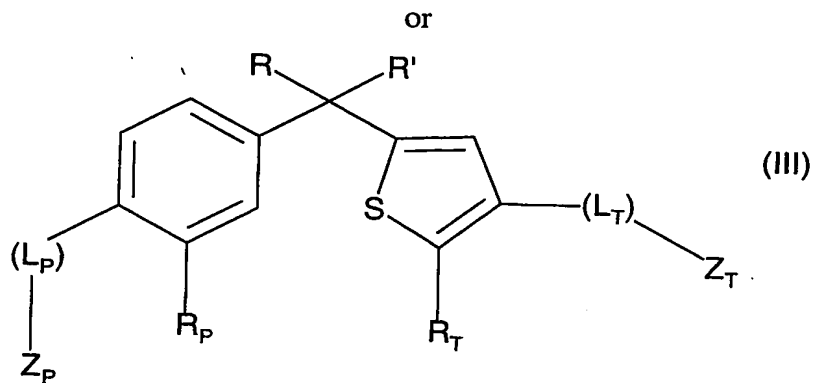
2. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound

-393-

represented by formula II or III or IV or V or a pharmaceutically acceptable salt or prodrug derivative thereof:

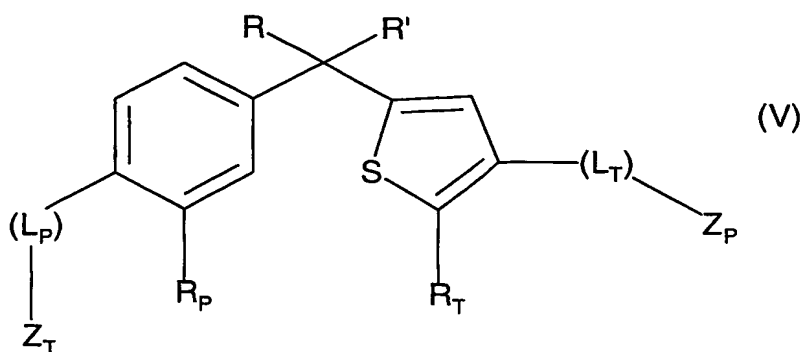


5



or

-394-



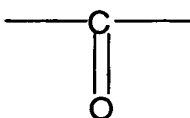
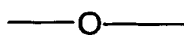
wherein;

R and R' are independently methyl, ethyl, propyl, 1-methylethyl, 1-methylpropyl, 2-methylpropyl, or 1,1-dimethylethyl;

- 5 R_p and R_T are independently selected from the group consisting of hydrogen, fluoro, -CF₃, -CH₂F, -CHF₂, -CH₂Cl, methoxy, ethoxy, vinyl, methyl, ethyl, propyl, 1-methylethyl, butyl, 1-methylpropyl, 2-methylpropyl, or 1,1-dimethylethyl;

L_T and L_p are independently selected from one the following divalent linking group;

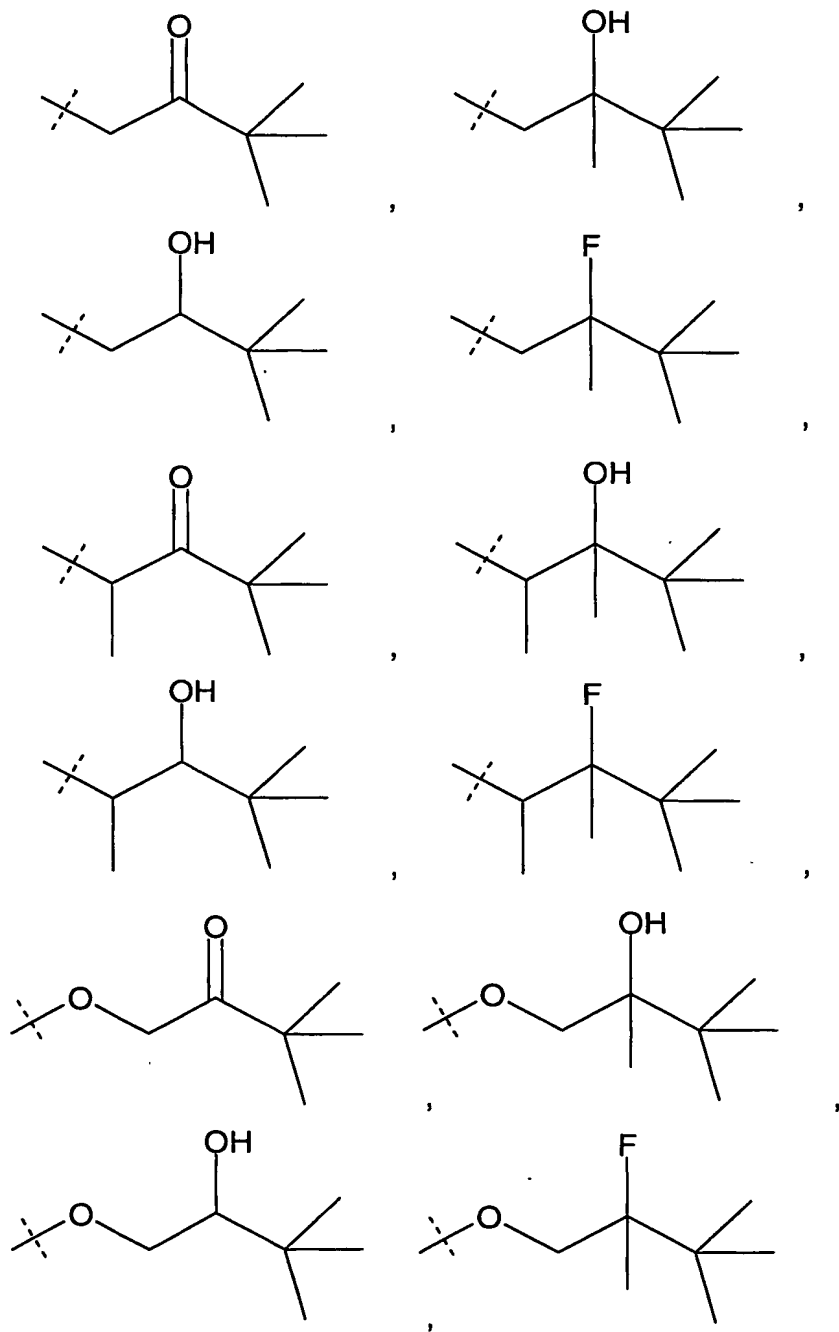
a bond



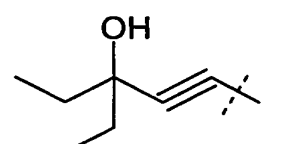
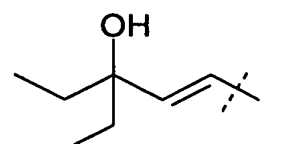
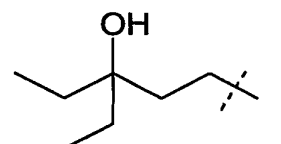
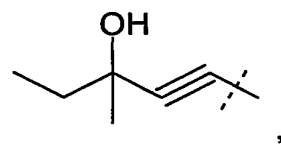
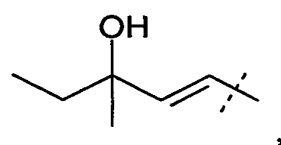
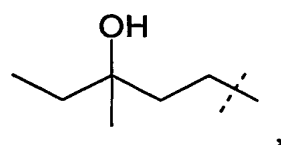
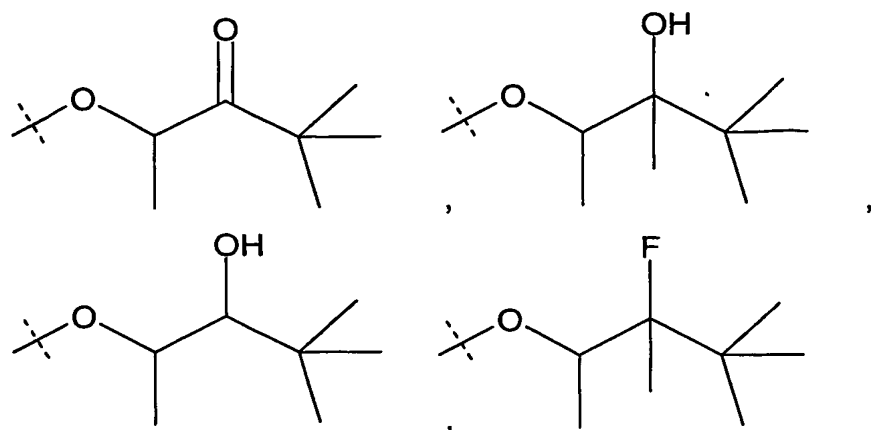
10

Z_p is selected from

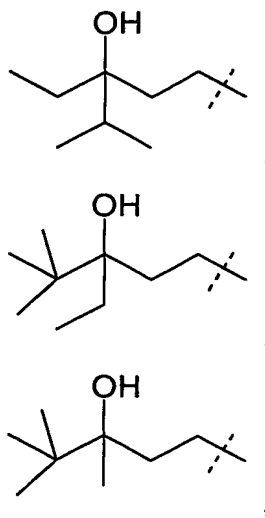
-395-



-396-



-397-



1-hydroxycyclopentenyl,

1-hydroxycyclohexenyl,

1-hydroxycycloheptenyl,

1-hydroxycyclooctenyl,

1-hydroxycyclopropyl,

1-hydroxycyclobutyl,

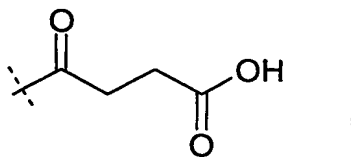
1-hydroxycyclopentyl,

1-hydroxycyclohexyl,

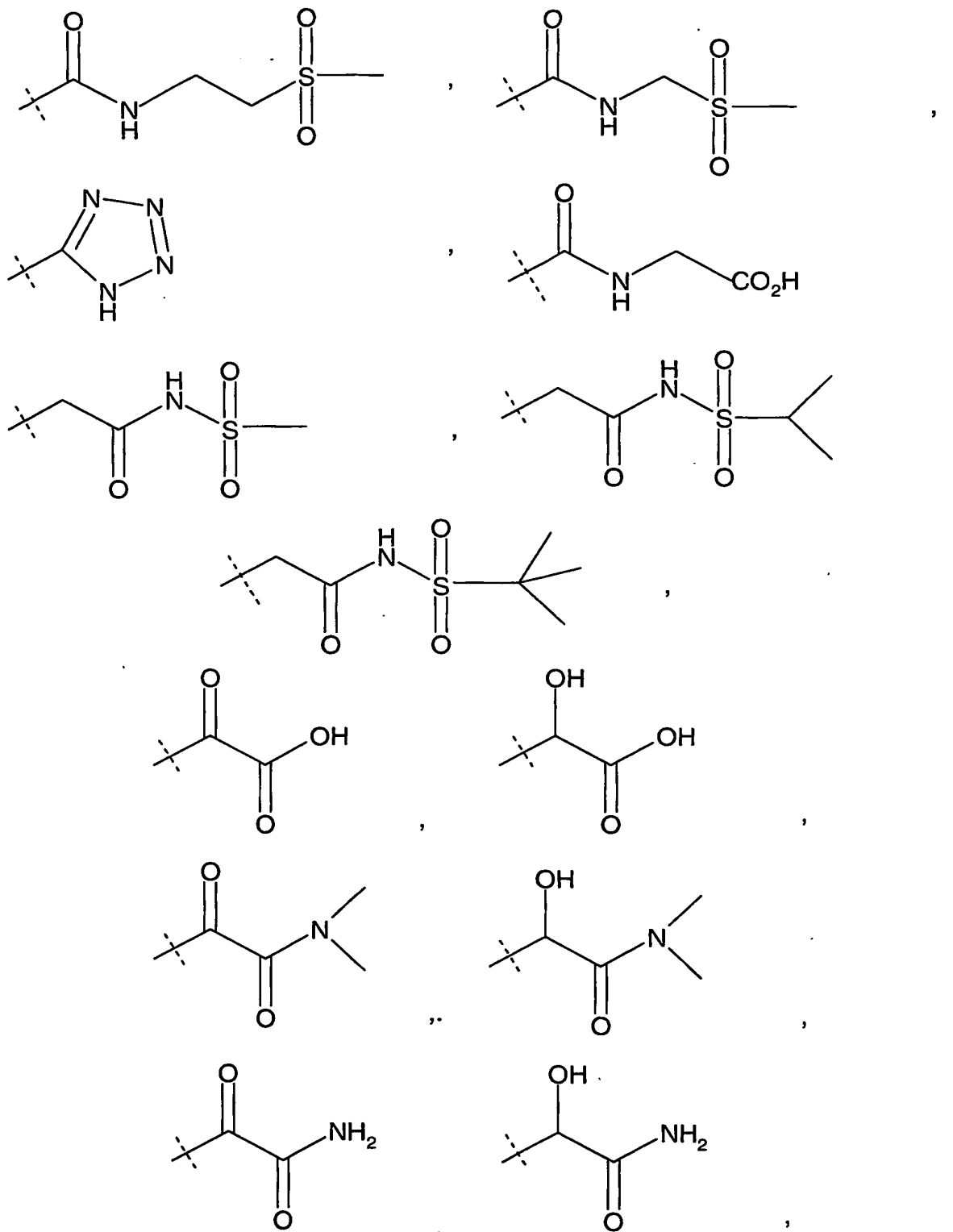
1-hydroxycycloheptyl, and

1-hydroxycyclooctyl;

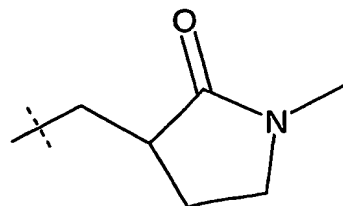
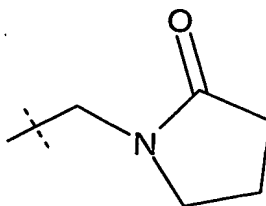
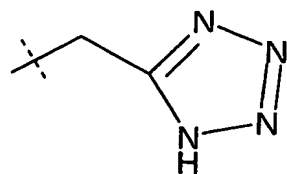
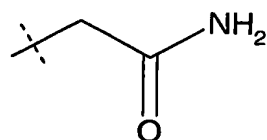
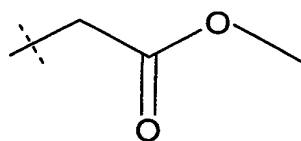
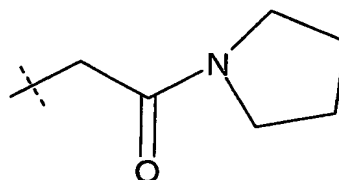
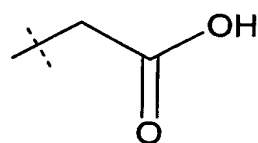
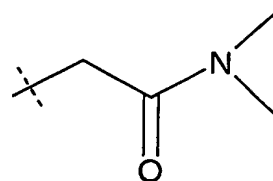
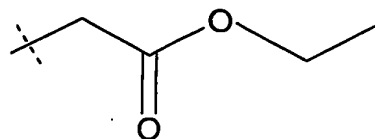
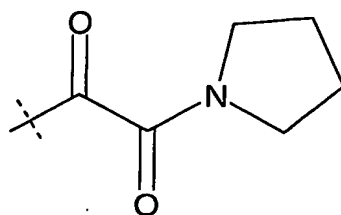
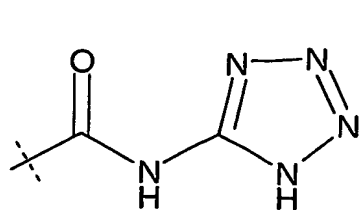
Z_T is a group represented by one of the structural formulae:



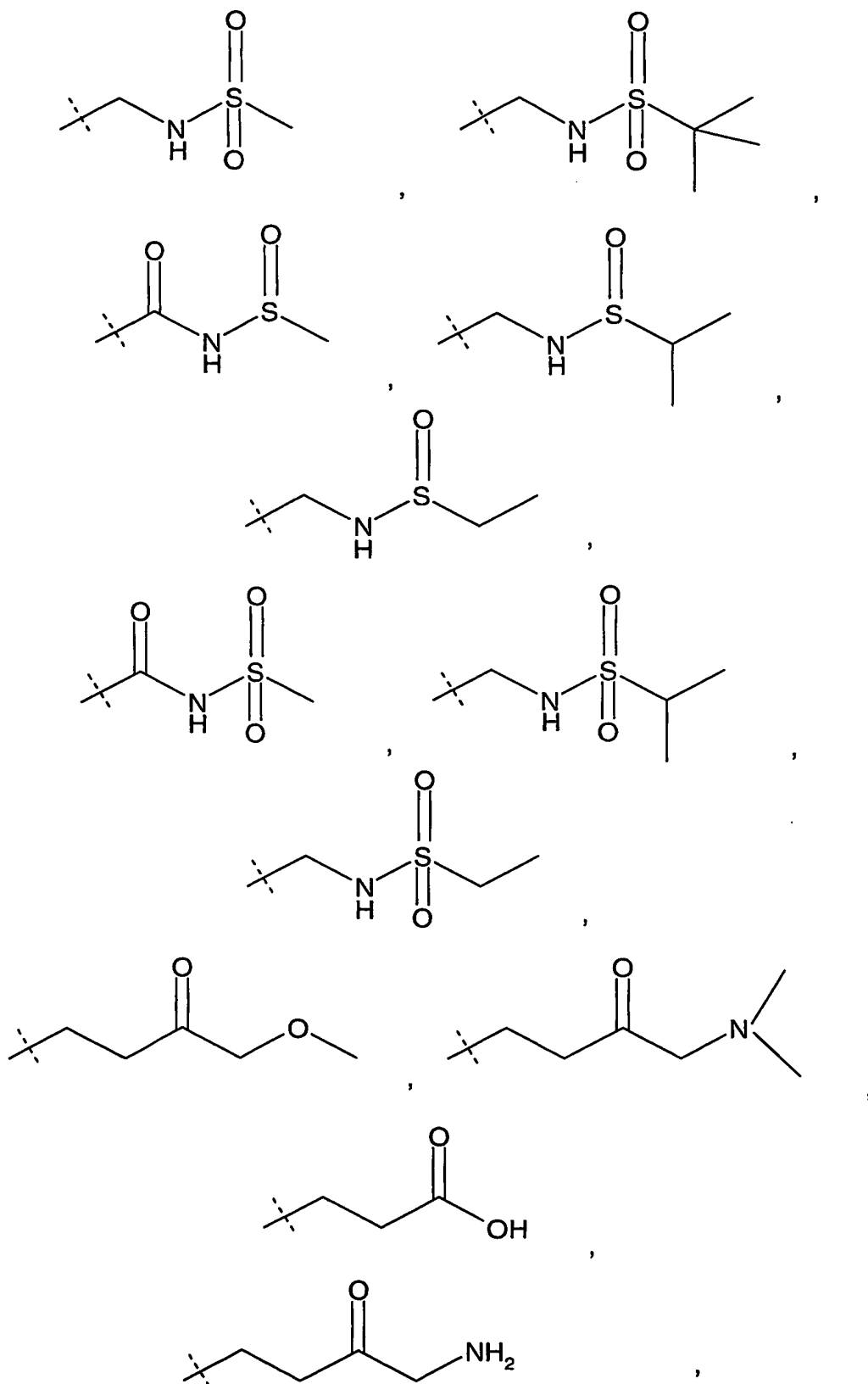
-398-



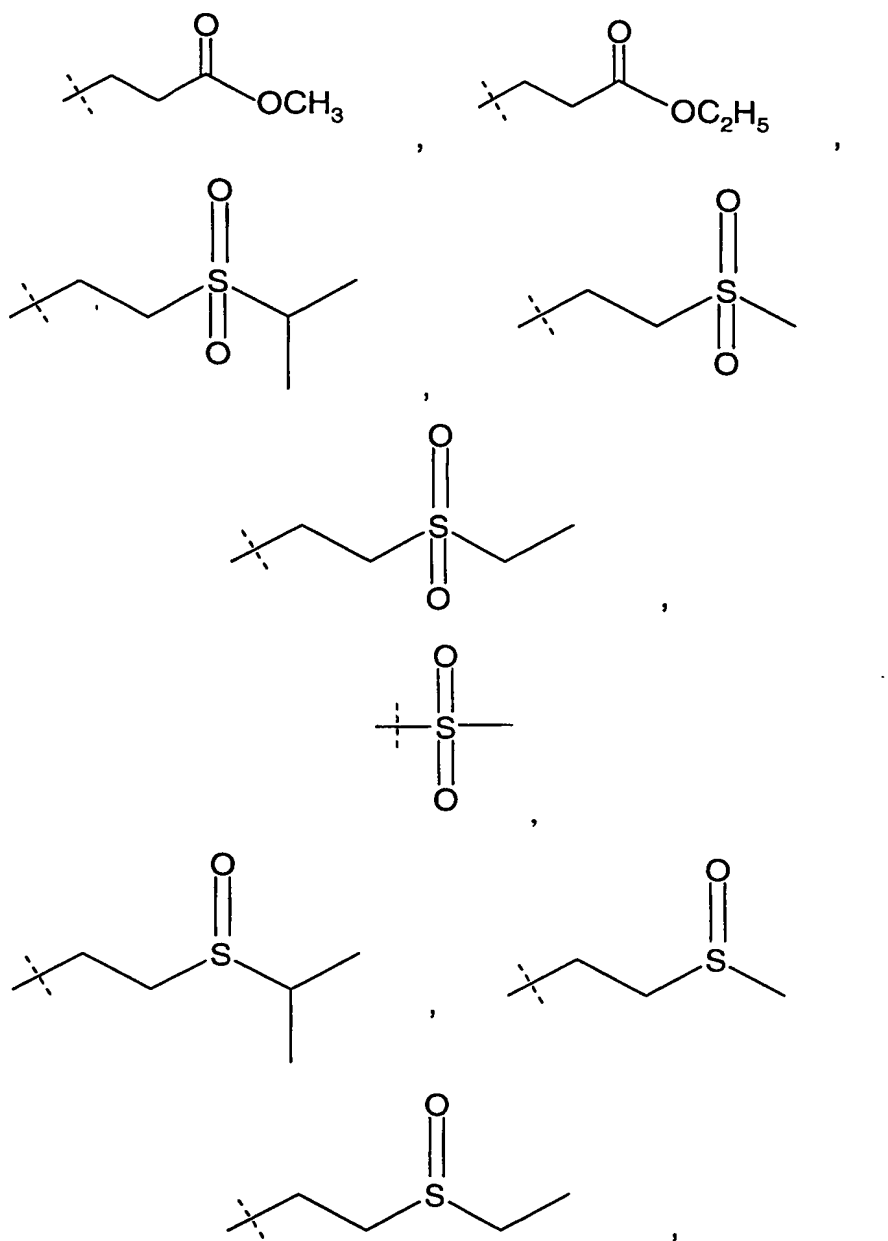
-399-



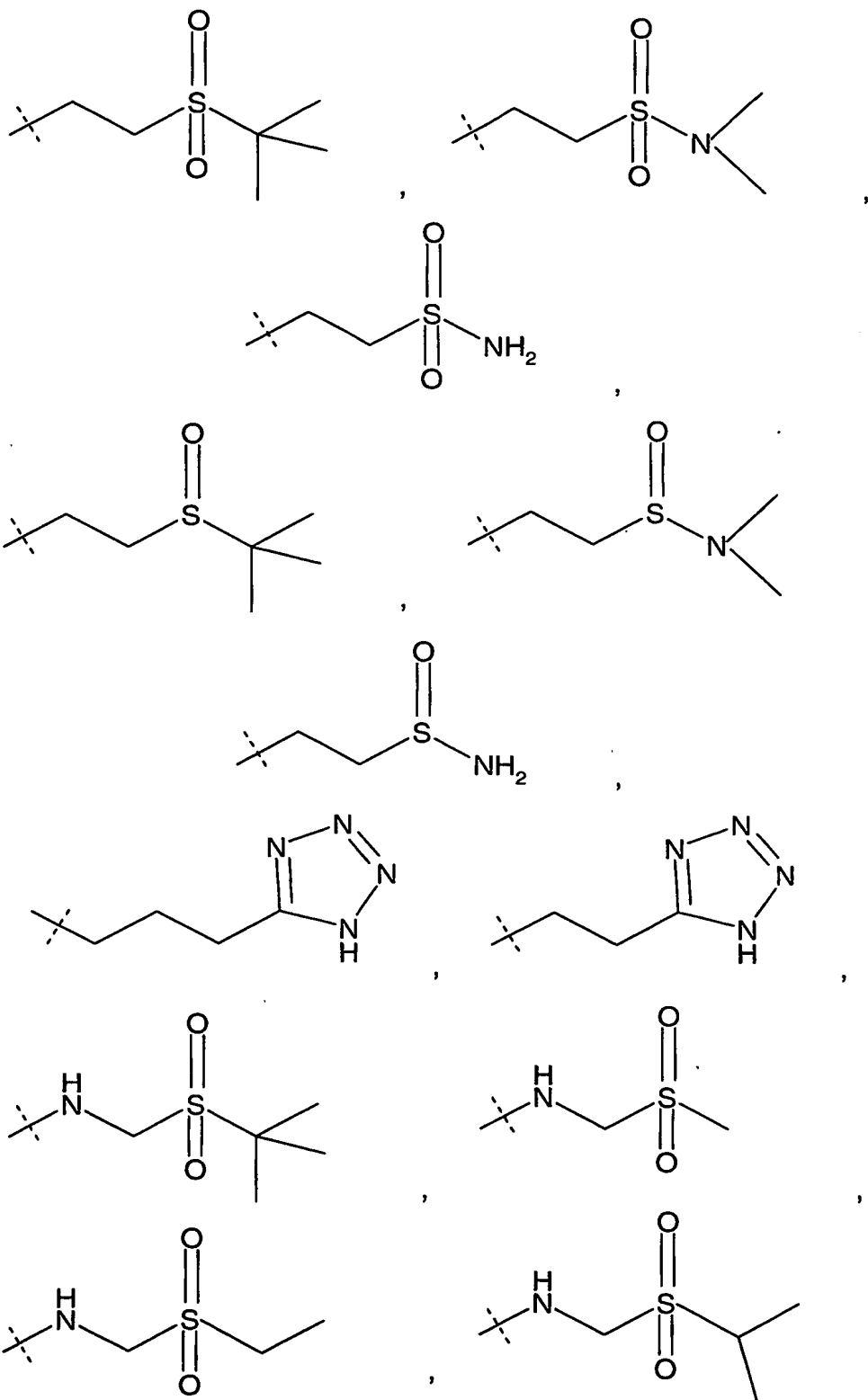
-400-



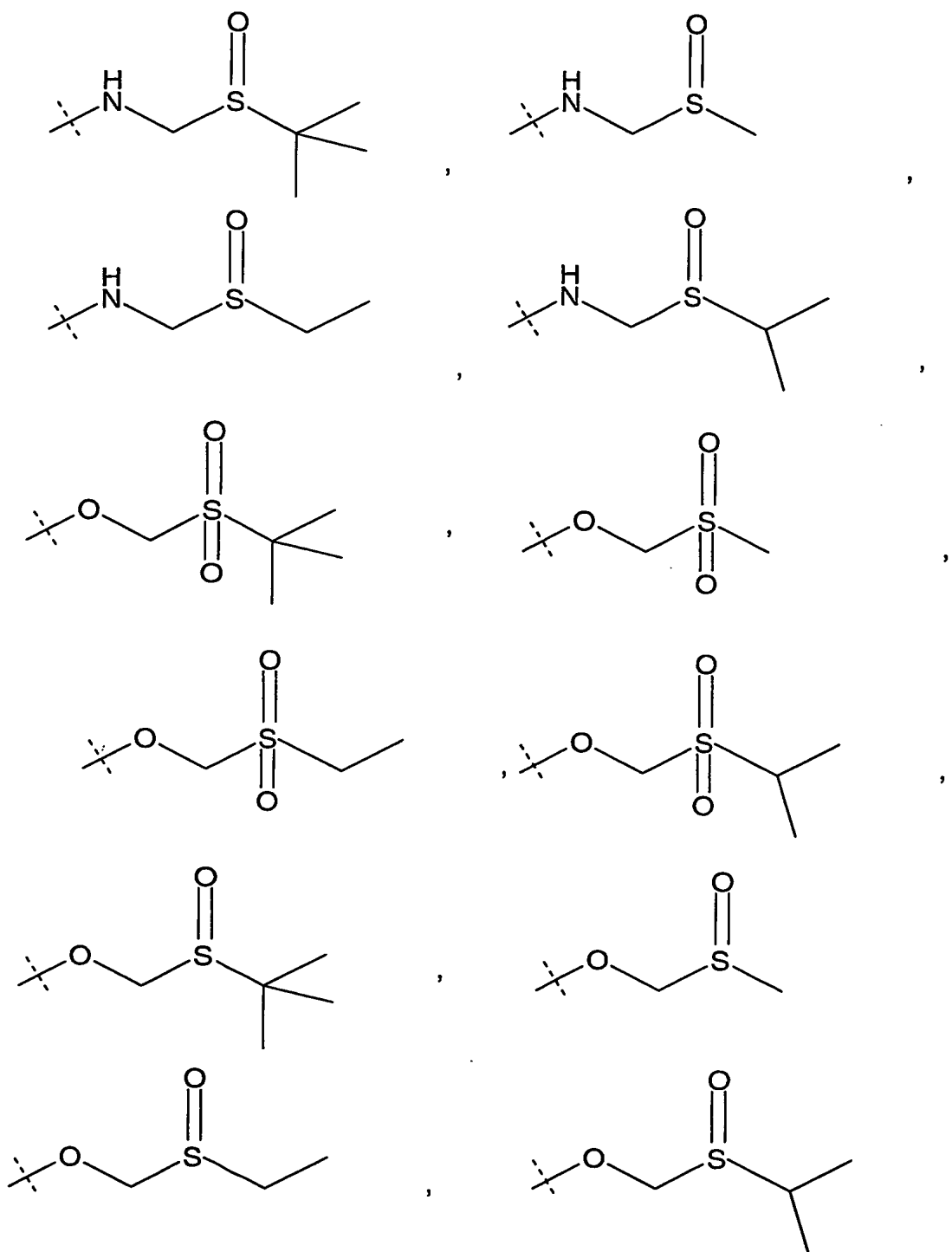
-401-

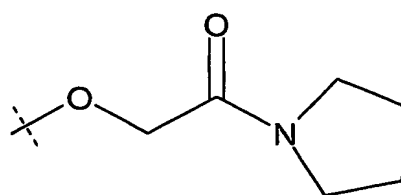
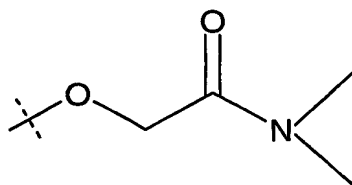
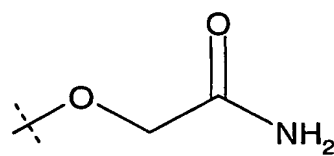
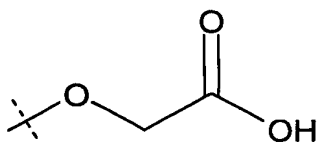
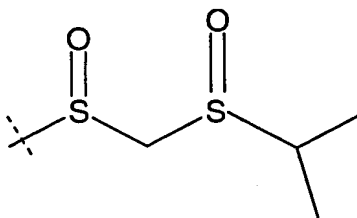
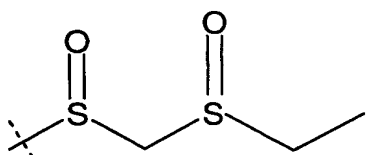
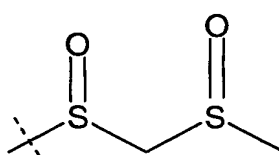
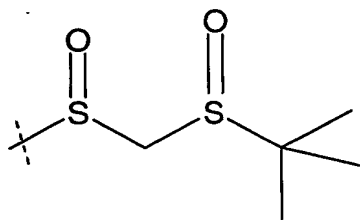
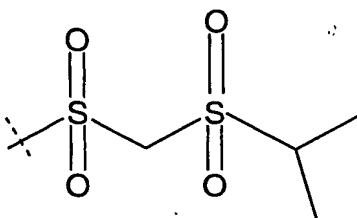
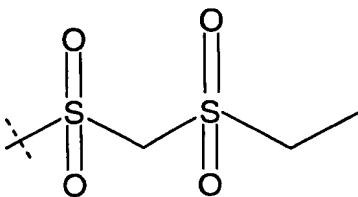
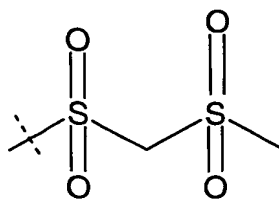
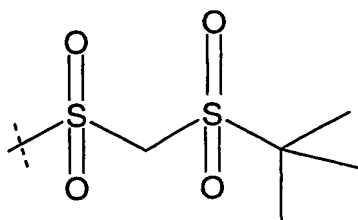


-402-

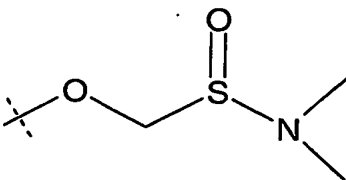
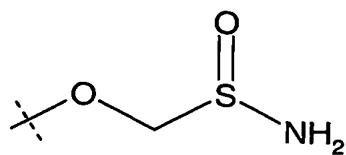
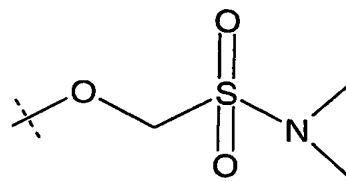
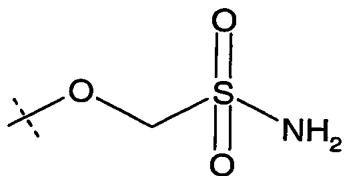
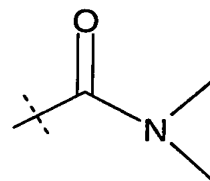
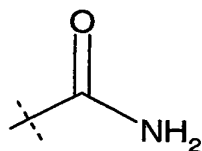
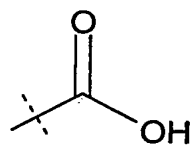
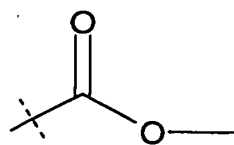
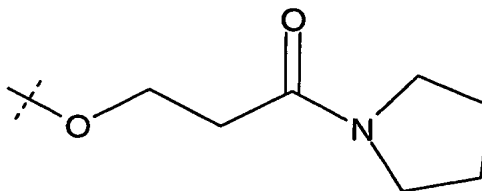
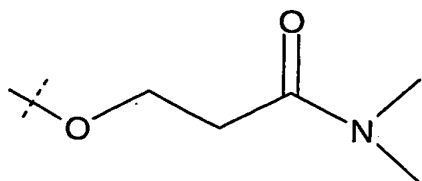
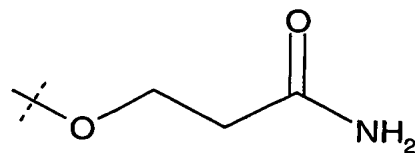
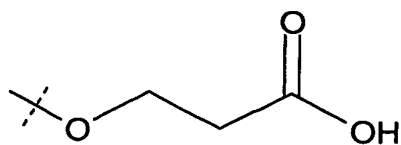


-403-

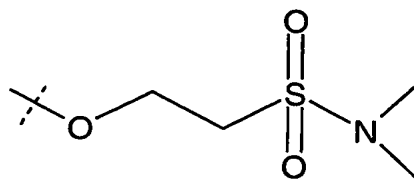
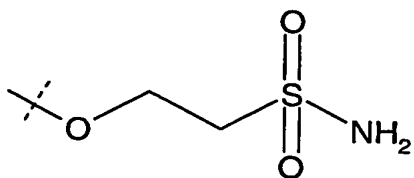




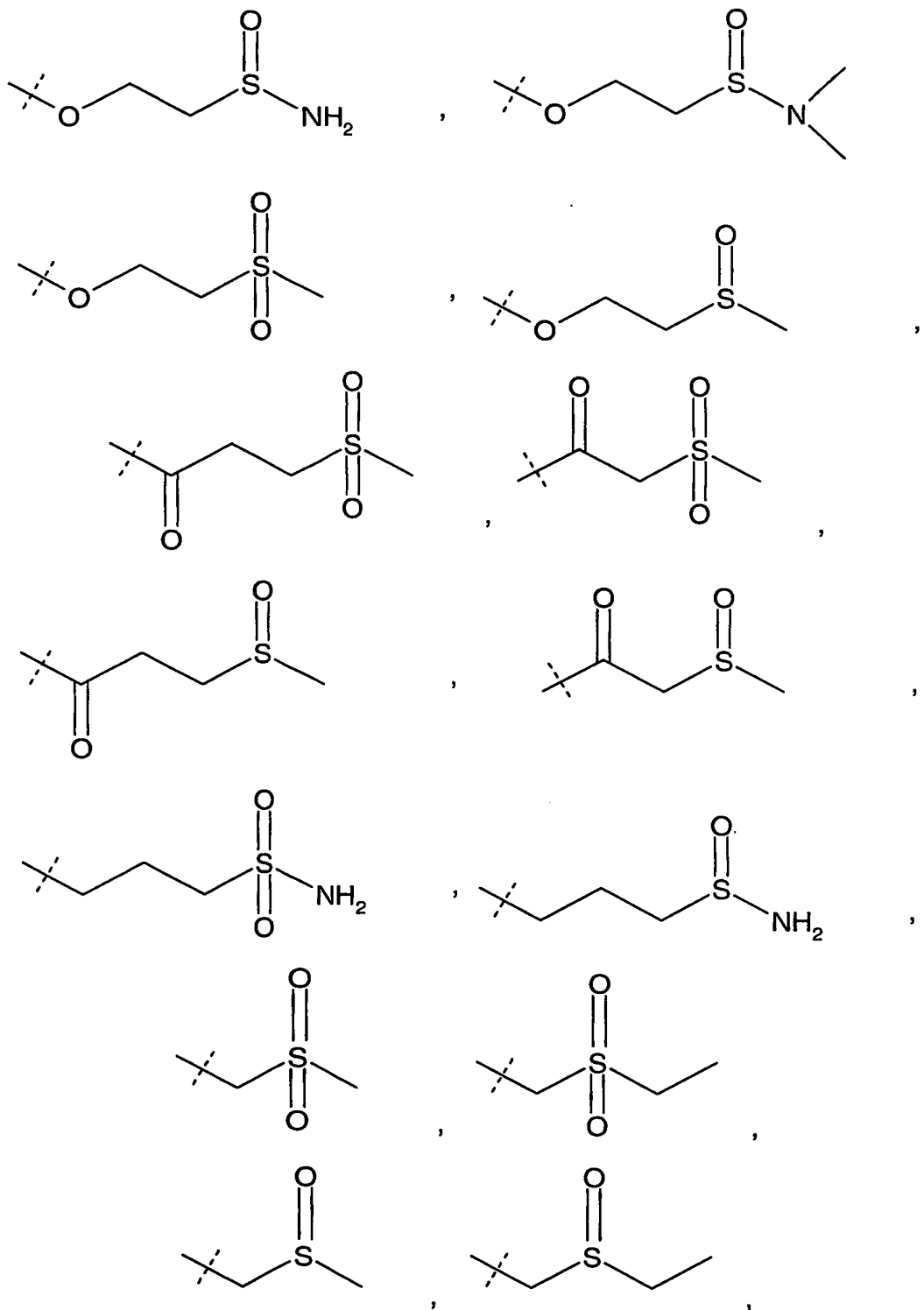
-405-



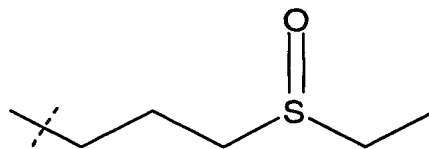
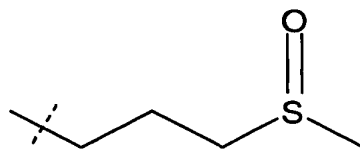
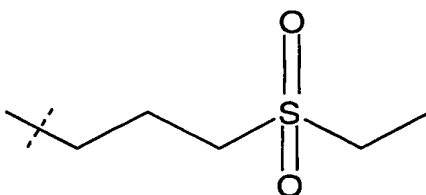
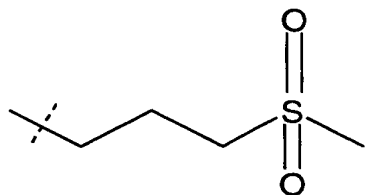
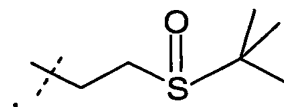
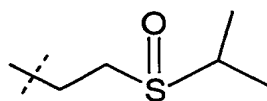
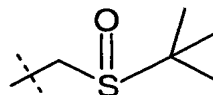
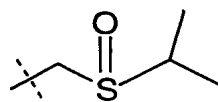
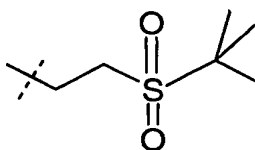
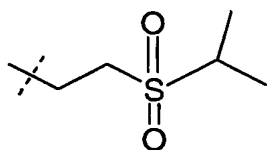
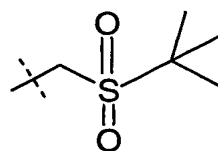
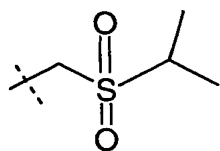
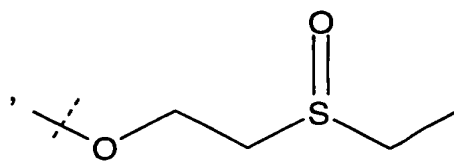
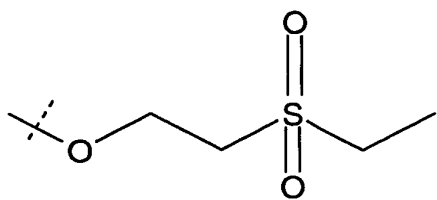
5



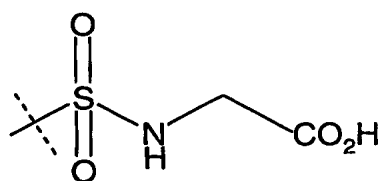
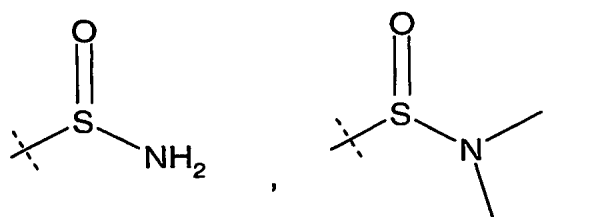
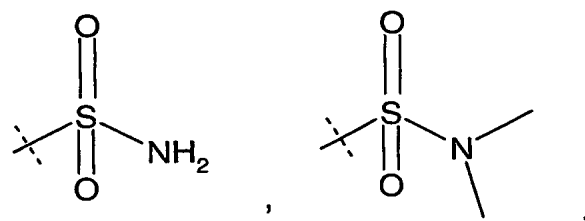
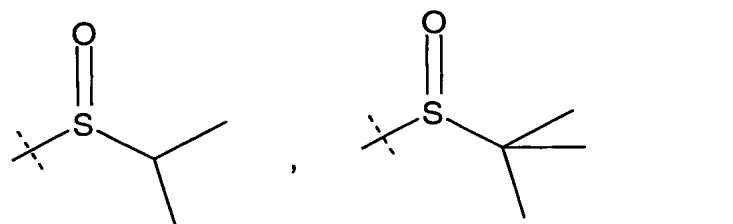
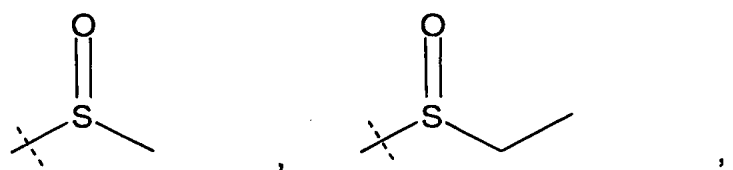
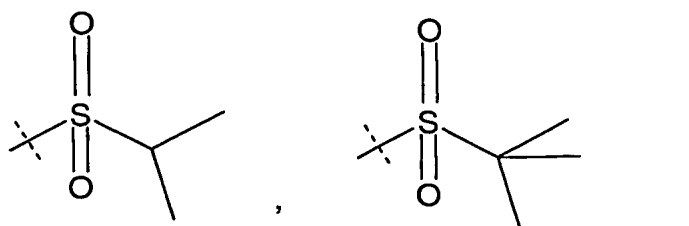
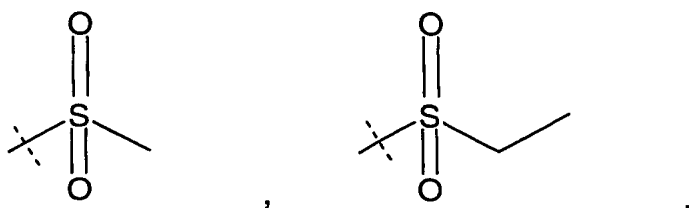
-406-



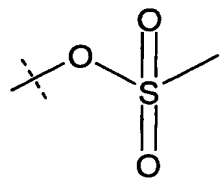
-407-



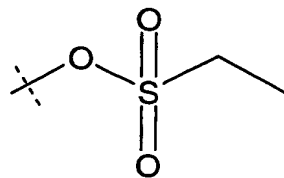
-408-



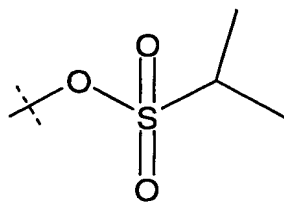
-409-



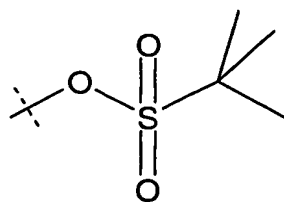
,



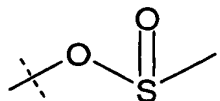
,



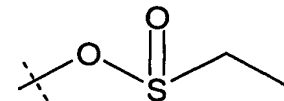
,



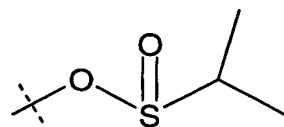
,



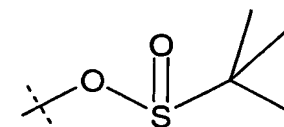
,



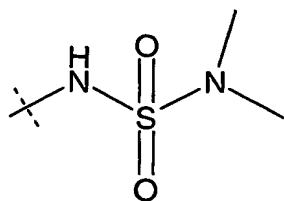
,



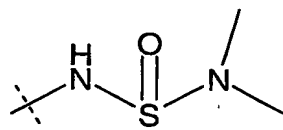
,



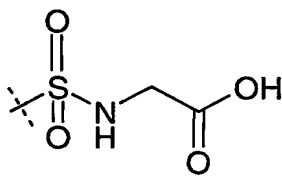
,



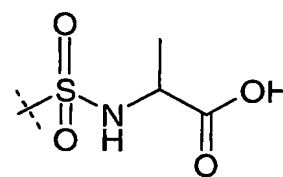
,



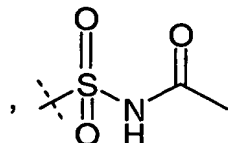
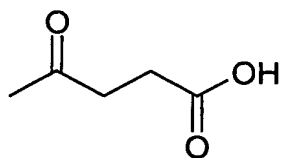
,



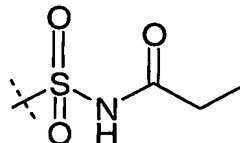
,



,

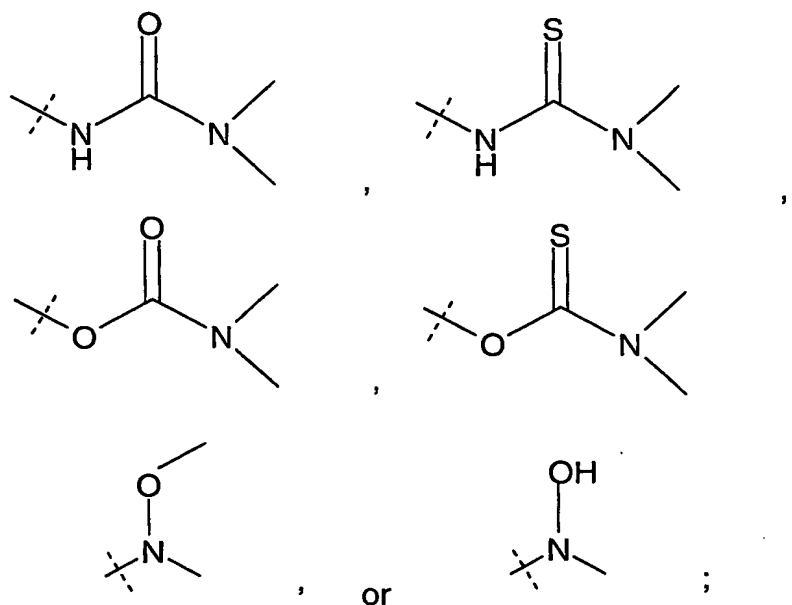


,

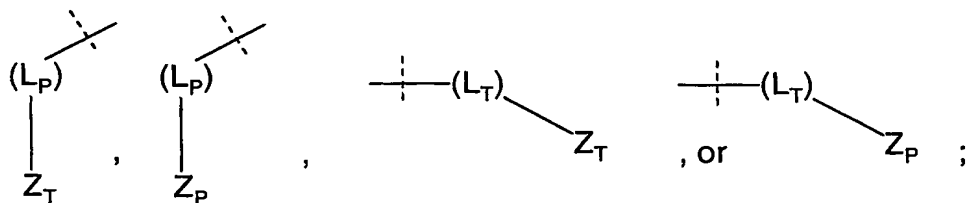


,

-410-



provided that the combined groups of formula II or III, or IV or V represented by



5 may all be lipophilic, or one may be lipophilic and the other one polar; but both combined groups may not be polar.

3. The method of claim 1 or 2 wherein;

linking group $-(L_T)-$ is a bond, $-O-$, or $-CH_2-$;

10 R and R' are both ethyl;

R_P and R_T are both methyl;

and provided that if Z_P or Z_T contain a C₁-C₅ alkyl group, then said group is 1,1-dimethylethyl;

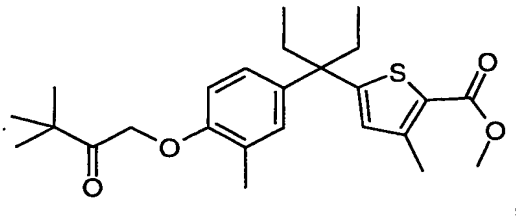
and provided that if the compound is a salt, then said salt is potassium or sodium.

15

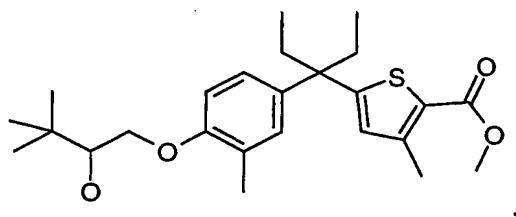
4. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of any one of formula (X1) thru (X188) or a pharmaceutically acceptable salt, solvate, or prodrug derivative thereof:

-411-

X1)

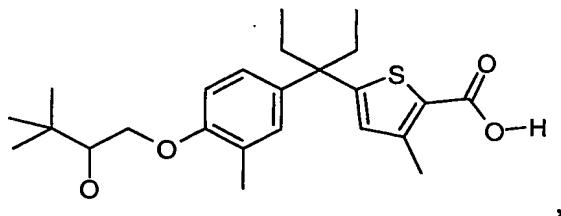


X2)



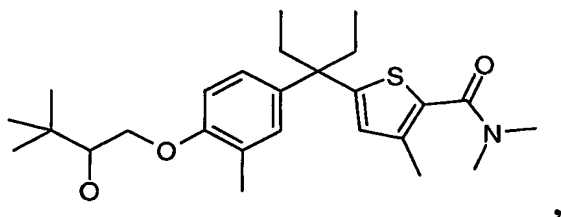
5

X3)

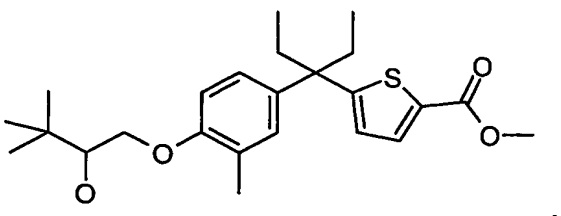


10

X4)

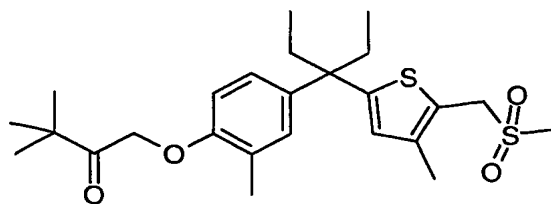


X5)

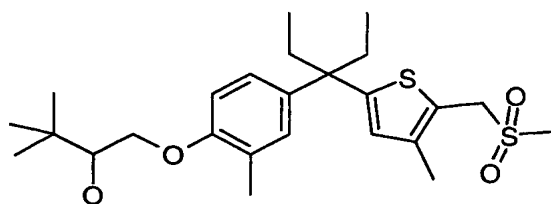


-412-

X9)

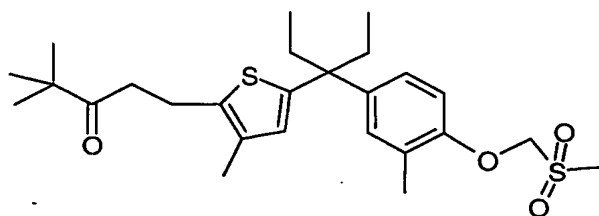


X10)

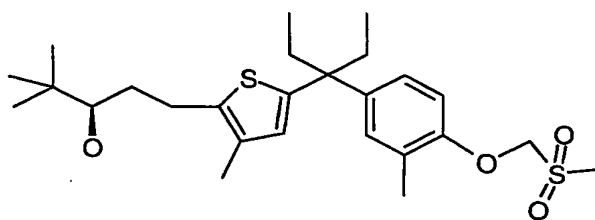


5

X13)

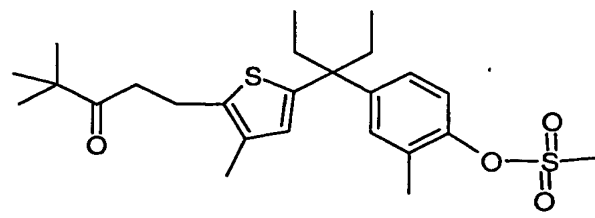


X14)



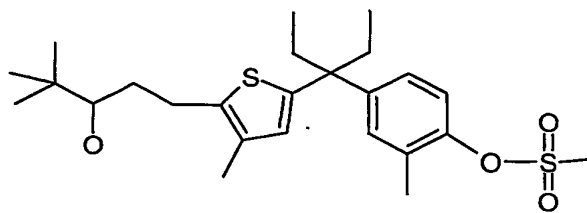
10

X17)

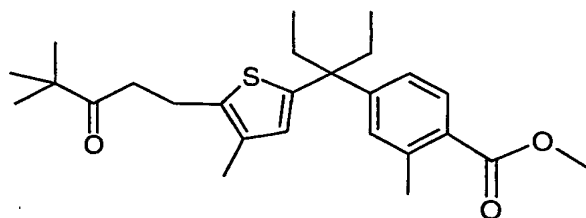


-413-

X19)

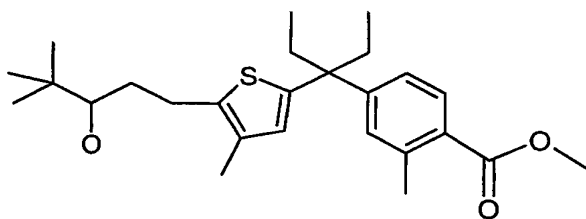


X20)

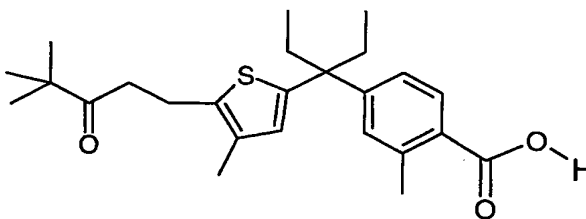


5

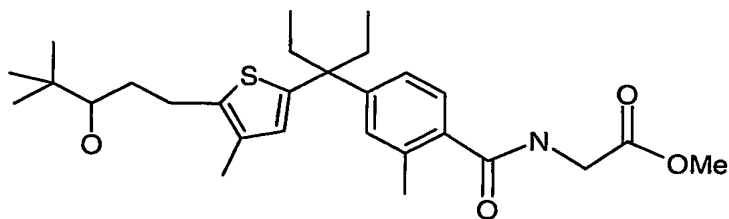
X21)



X22)



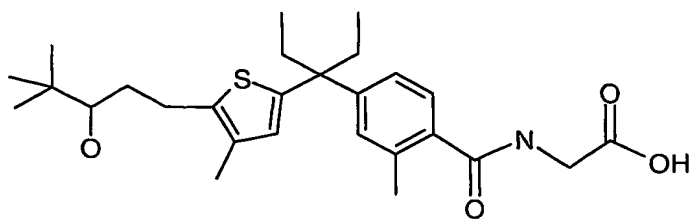
X24)



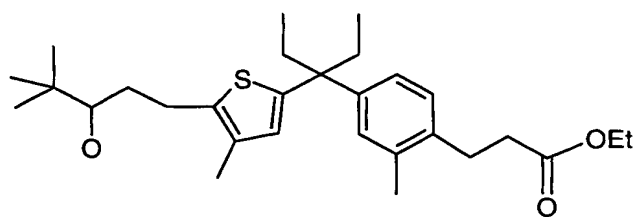
10

-414-

X26)

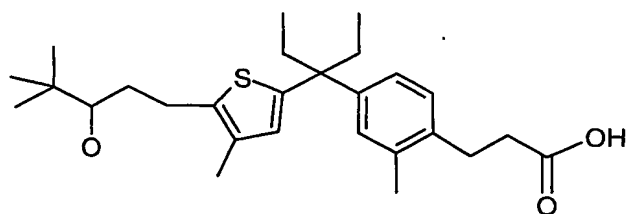


X28)

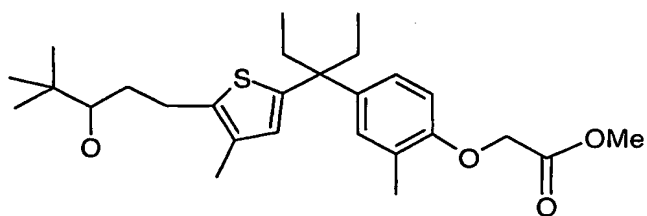


5

X29)

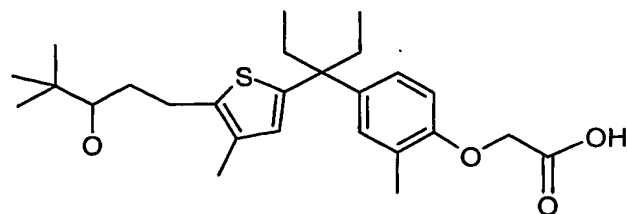


X31)



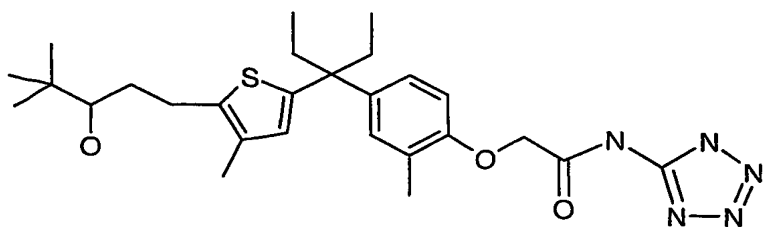
10

X32)

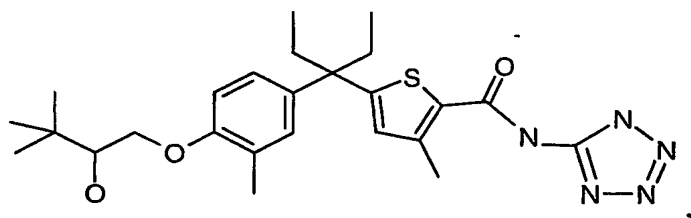


-415-

X34)

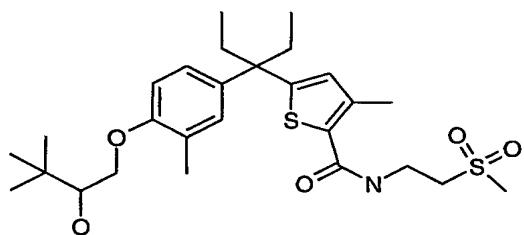


X36)

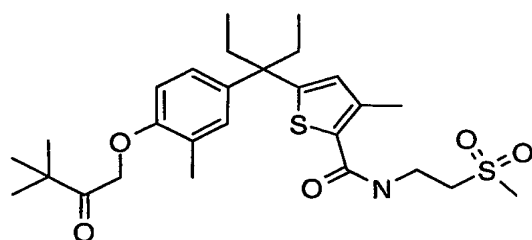


5

X38)

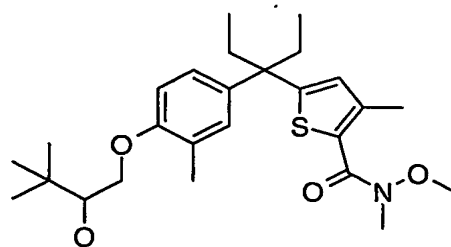


X41)



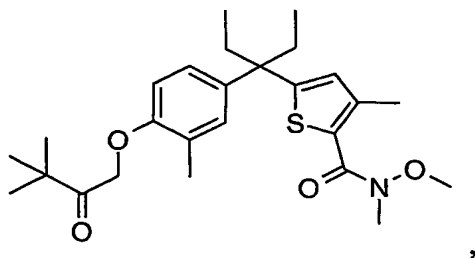
10

X42)

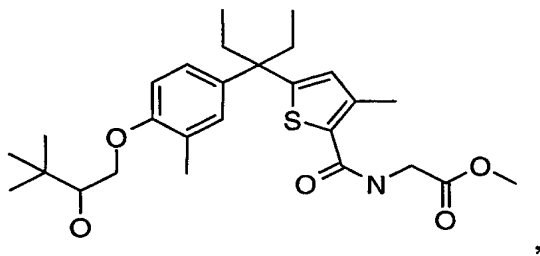


-416-

X45)

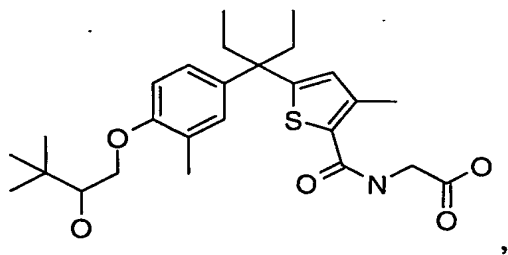


X46)

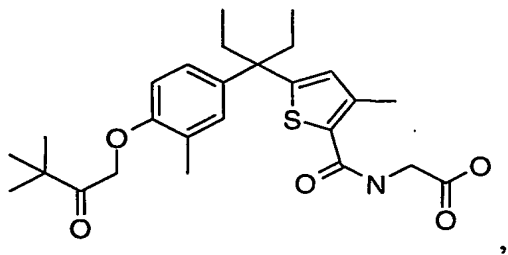


5

X47)



X50)

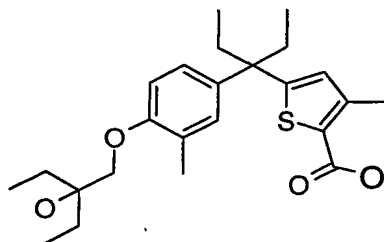


10

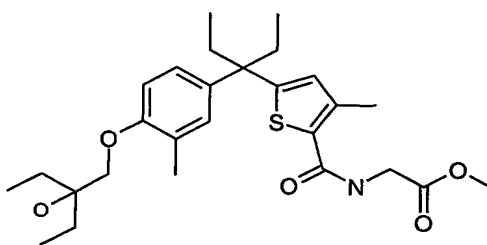
15

-417-

X51)

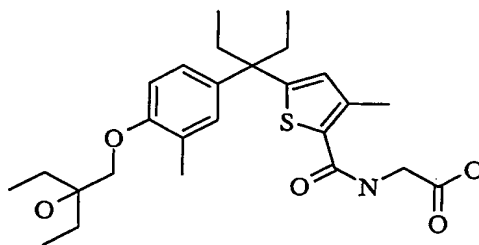


X52)

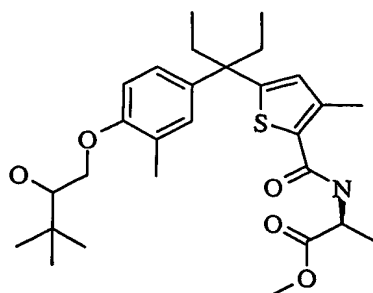


5

X53)

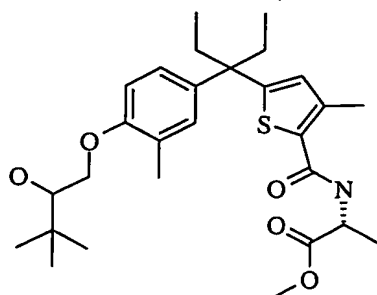


X54)

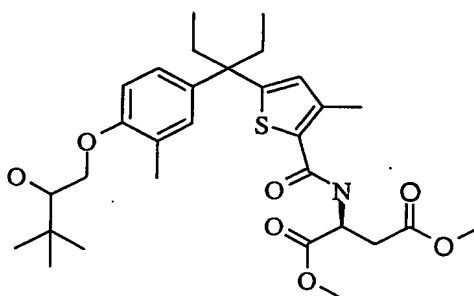


-418-

X56)

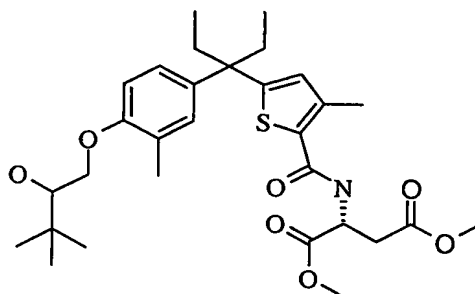


X58)

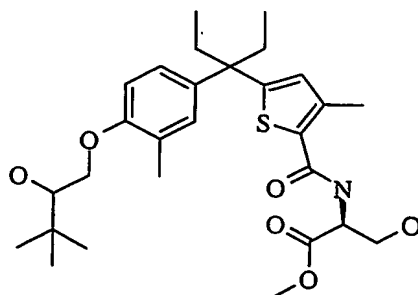


5

X60)

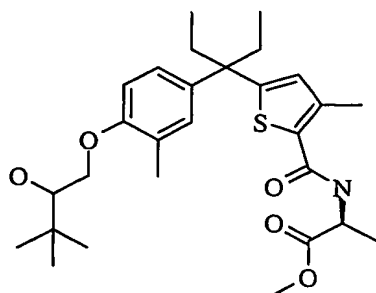


X62)



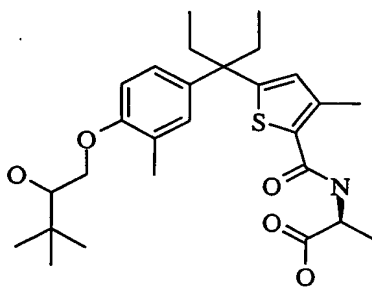
-419-

X64)

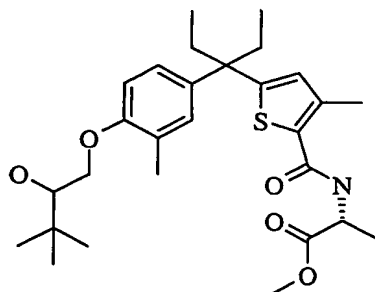


5

X65)

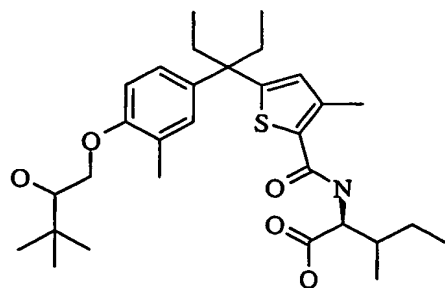


X66)



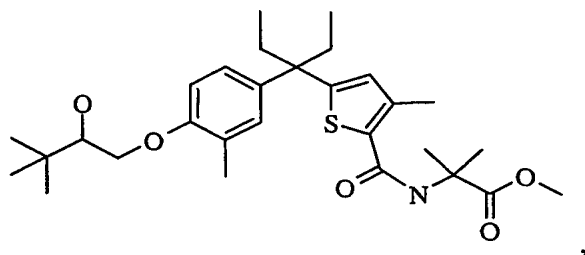
10

X69)

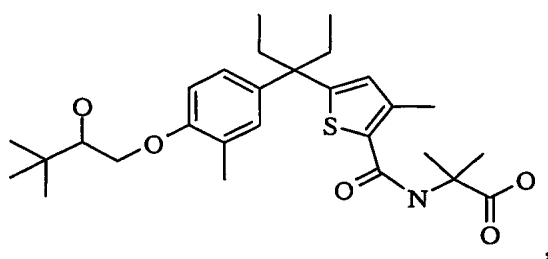


-420-

X70)

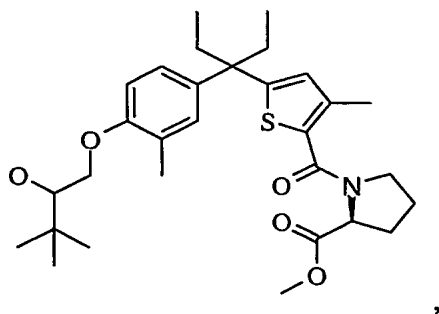


X71)

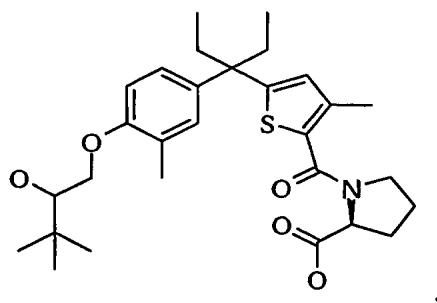


5

X72)

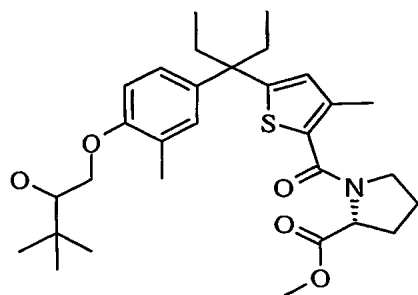


X75)

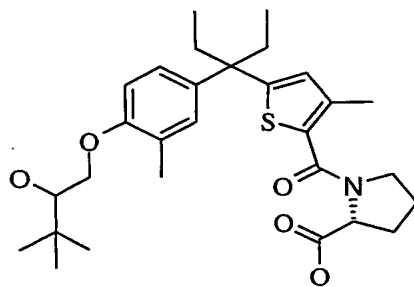


-421-

X78)

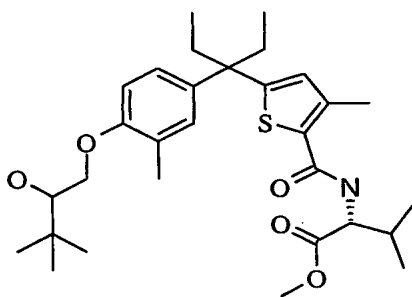


X81)

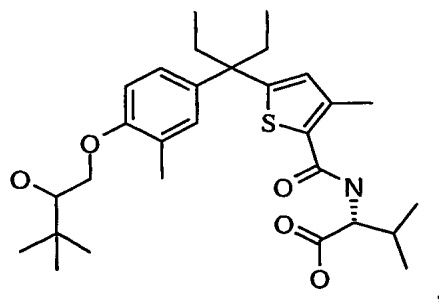


5

X83)

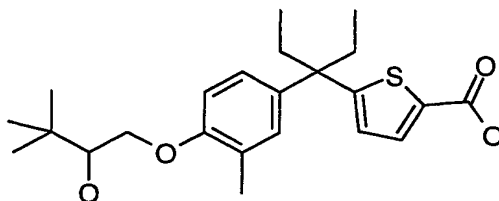


X86)

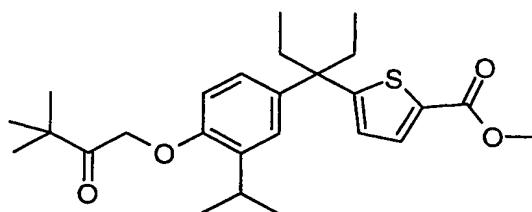


-422-

X88)

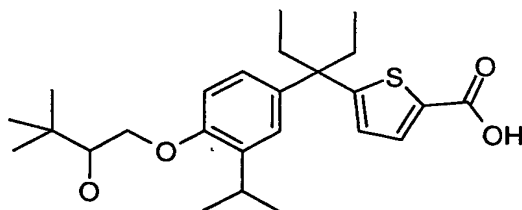


X91)

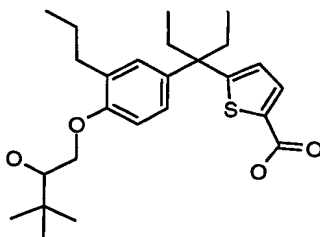


5

X92)

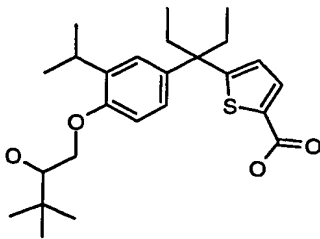


X93)



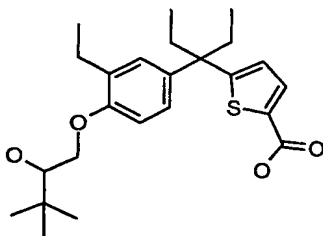
10

X96)



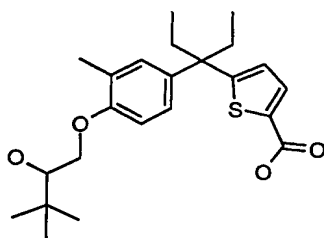
-423-

X99)



,

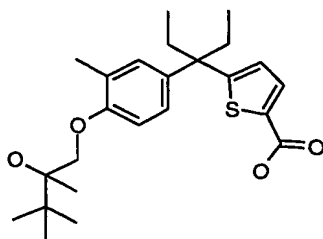
X102)



,

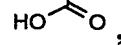
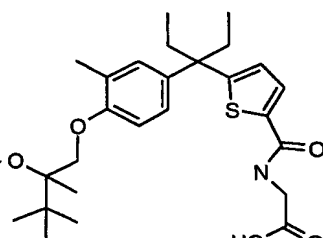
-424-

X103)



,

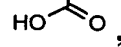
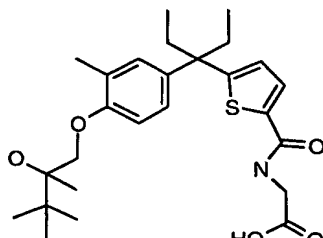
X105)



,

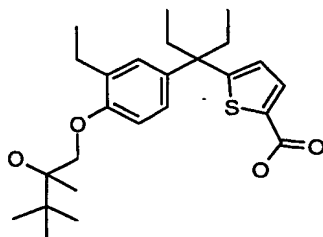
5

X106)



,

X107)

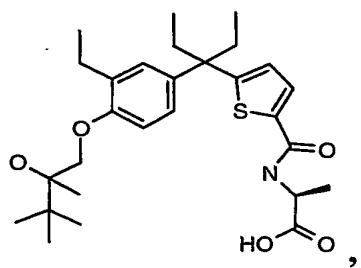


,

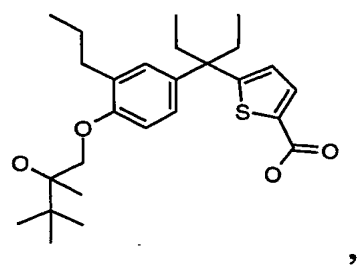
10

-425-

X110)

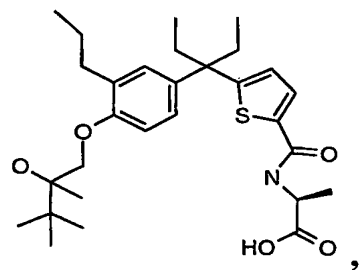


X111)

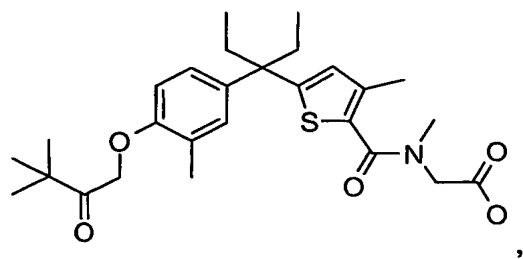


5

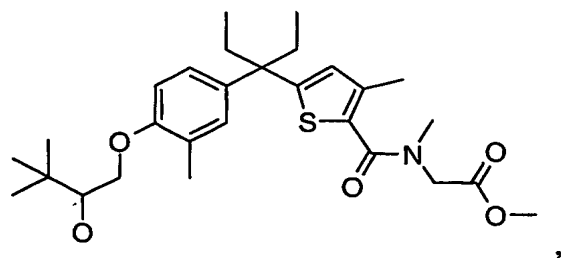
X114)



X118)



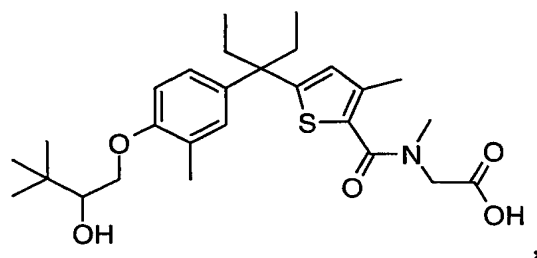
X119)



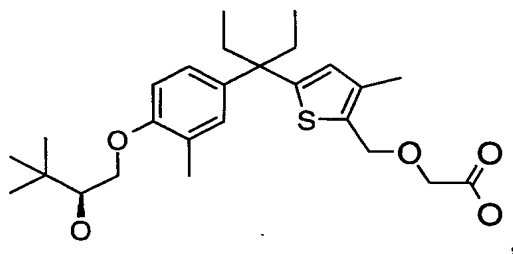
10

-426-

X122)

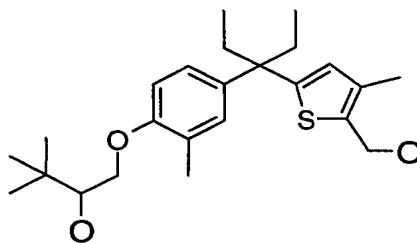


X124)

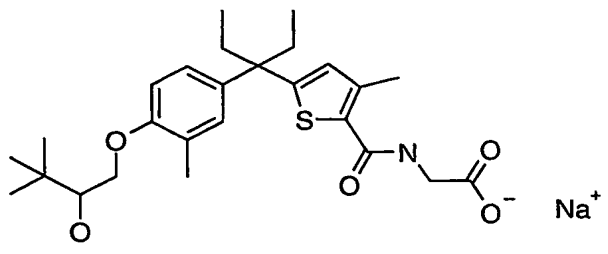


5

X125)



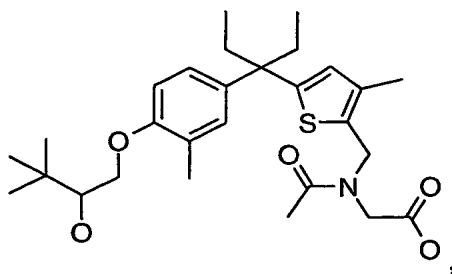
X128)



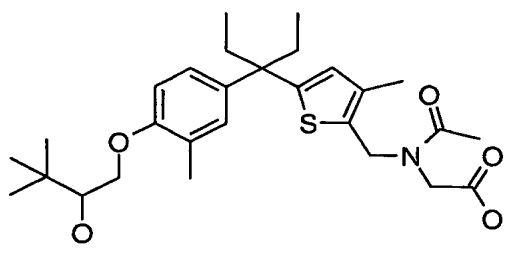
10

-427-

X130)

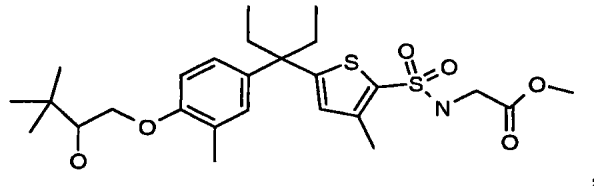


X131)

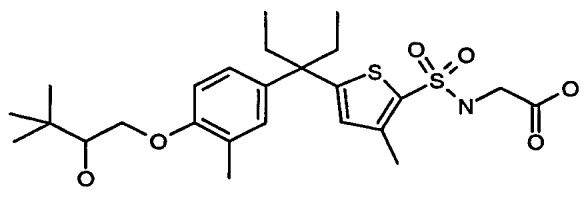


5

X134)

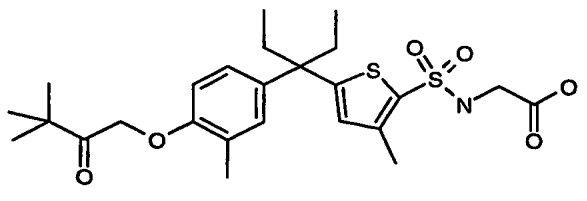


X137)



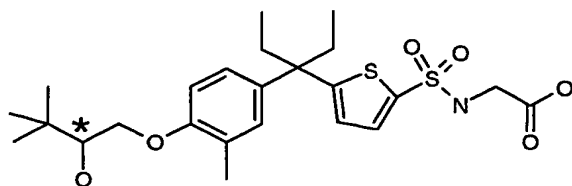
10

X139)

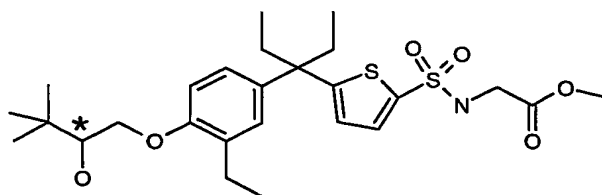


-430-

X153)

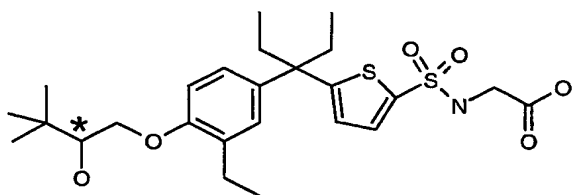


X154)

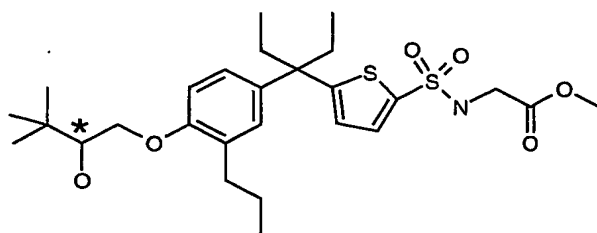


5

X155)

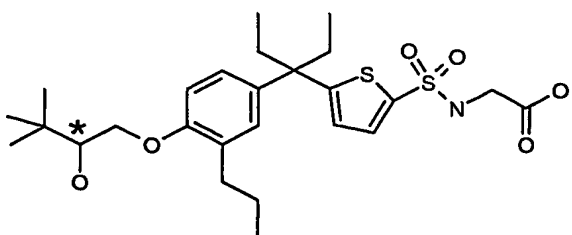


X156)



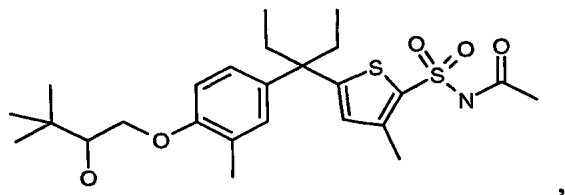
10

X157)

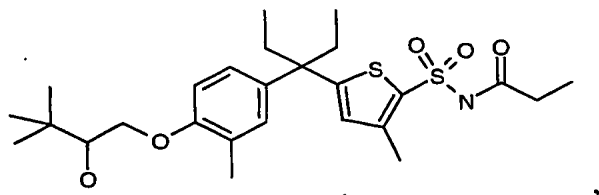


-431-

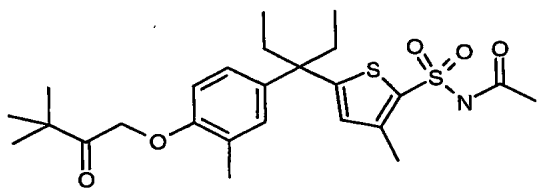
X158)



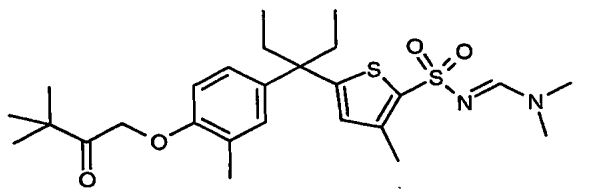
X159)



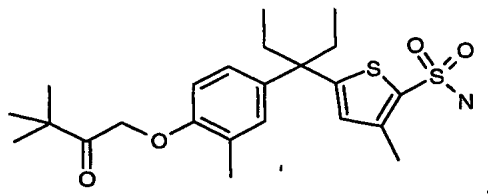
X160)



X161)



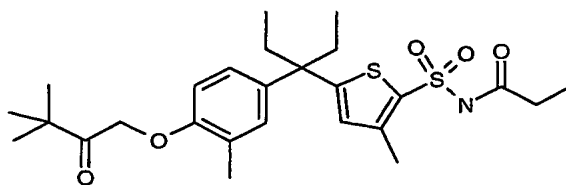
X162)



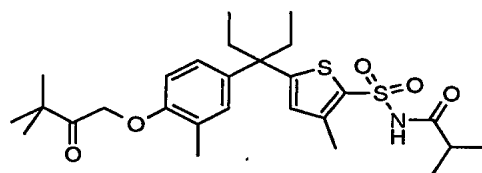
-432-

5

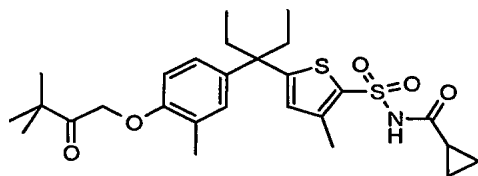
X163)



X164)

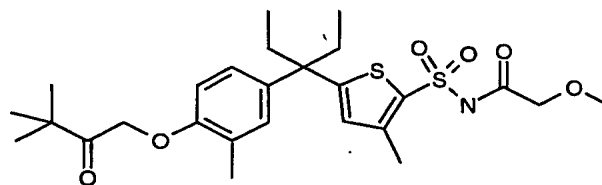


X165)

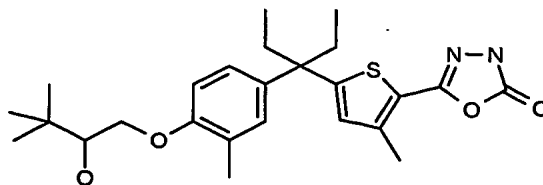


10

X166)



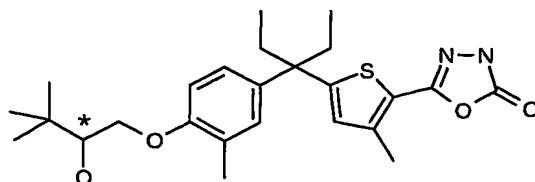
X169)



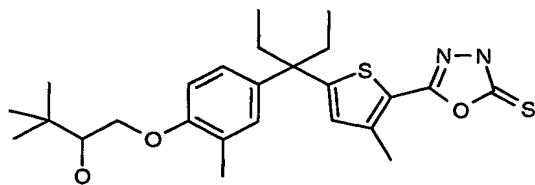
15

-433-

X171)

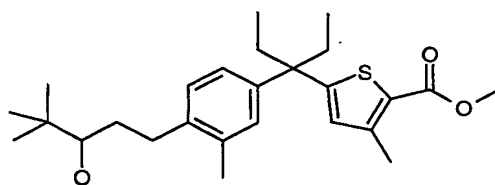


X172)

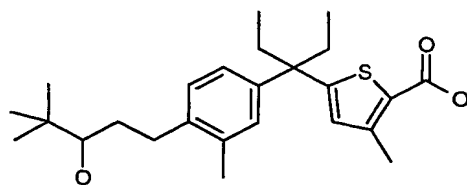


5

X174)

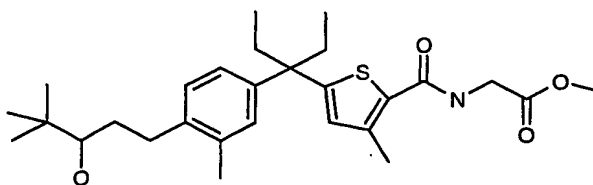


X175)



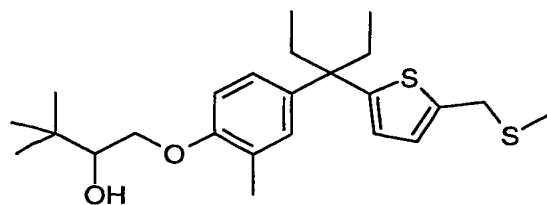
10

X176)

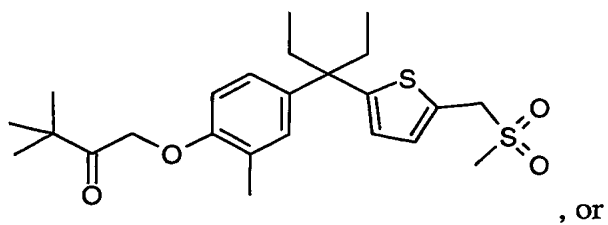


-435-

X185)

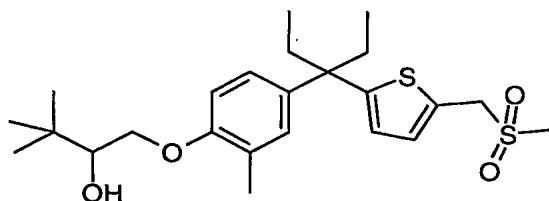


X187)



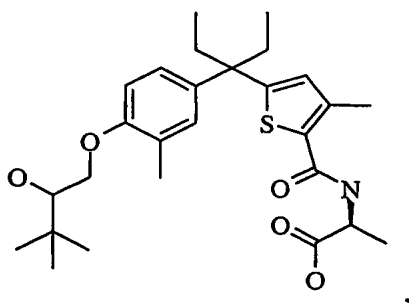
5

X188)



5. A method of treating a mammal to prevent or alleviate the effect of
 10 Mustard by administering a pharmaceutically effective amount of a compound selected
 from the group consisting of compounds represented by the formula:

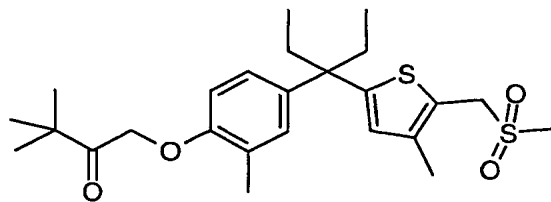
P100



15

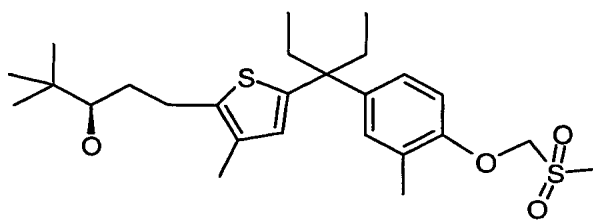
-436-

P101

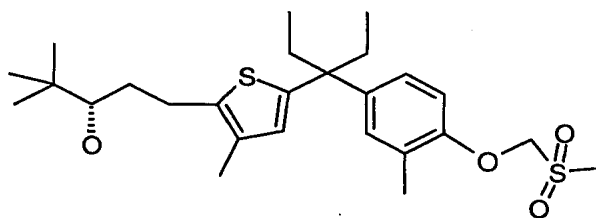


5

P102

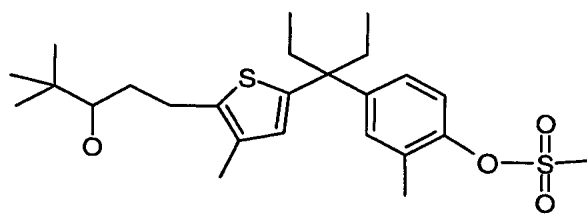


P103

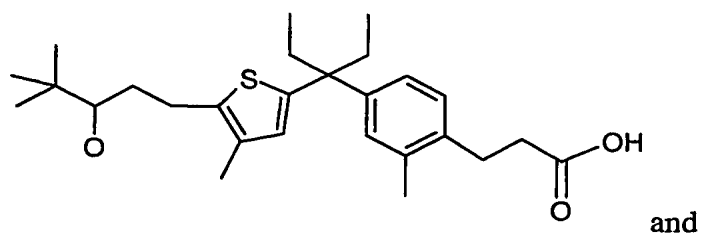


10

P104

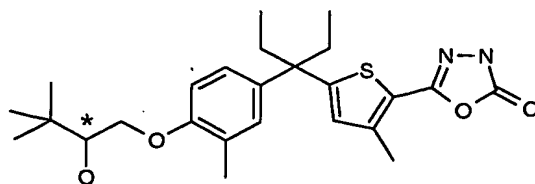


P105



-437-

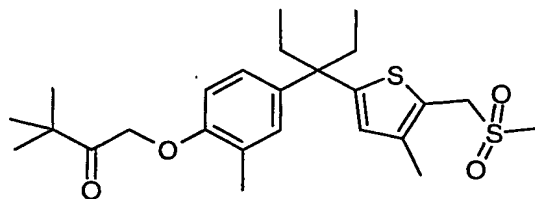
P106



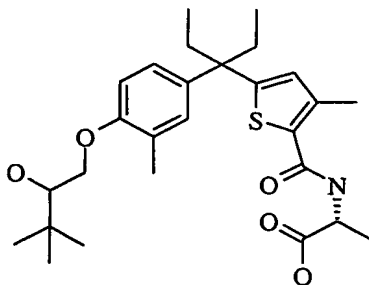
5 or a pharmaceutically suitable salt, solvate, or prodrug derivative thereof.

6. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound represented by the formula:

10 P101



P200

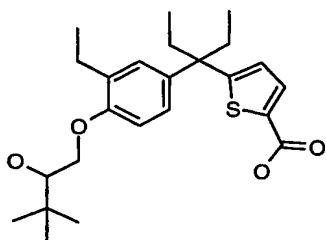


15

20

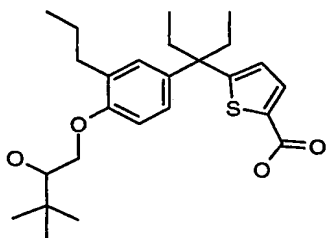
-438-

P201

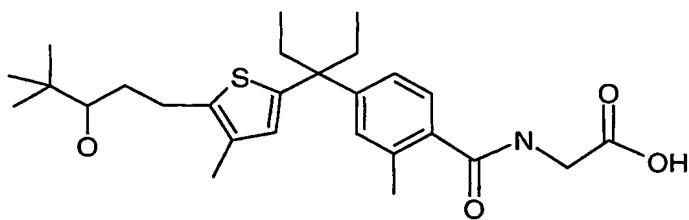


5

P202

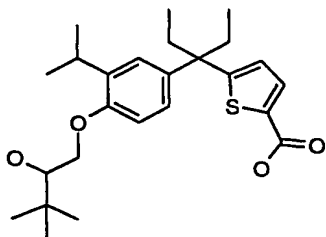


P203



10

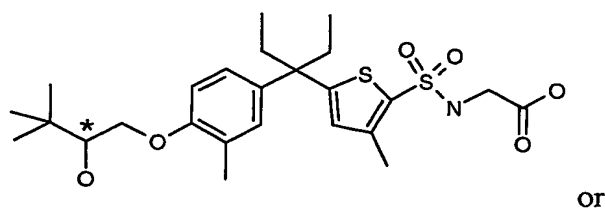
P204



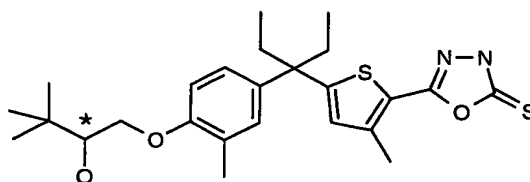
15

-439-

P205

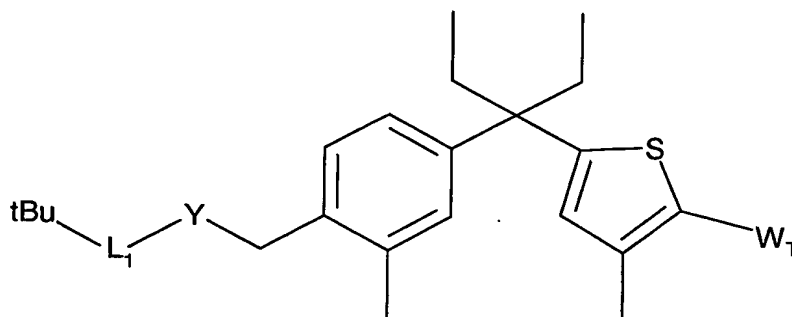


P206



5 or a pharmaceutically suitable salt, solvate, or prodrug derivative thereof.

7. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically acceptable salt thereof represented by the formula:



10 wherein said compound is selected from a compound code numbered 1 thru 516, with each compound having the specific selection of groups L_1 , Y, and W_T shown in the row following the code number, as set out in the following Table1:

15 Table 1

Code	L_1	Y	W_T
1	C(O)	CH ₂	-CO ₂ Me
2	CHOH	CH ₂	-CO ₂ Me

-440-

3	C(Me)OH	CH ₂	-CO ₂ Me
4	C(O)	CH(Me)	-CO ₂ Me
5	CHOH	CH(Me)	-CO ₂ Me
6	C(Me)OH	CH(Me)	-CO ₂ Me
7	C(O)	CH ₂	-CO ₂ H
8	CHOH	CH ₂	-CO ₂ H
9	C(Me)OH	CH ₂	-CO ₂ H
10	C(O)	CH(Me)	-CO ₂ H
11	CHOH	CH(Me)	-CO ₂ H
12	C(Me)OH	CH(Me)	-CO ₂ H
13	C(O)	CH ₂	-C(O)NH ₂
14	CHOH	CH ₂	-C(O)NH ₂
15	C(Me)OH	CH ₂	-C(O)NH ₂
16	C(O)	CH(Me)	-C(O)NH ₂
17	CHOH	CH(Me)	-C(O)NH ₂
18	C(Me)OH	CH(Me)	-C(O)NH ₂
19	C(O)	CH ₂	-C(O)NMe ₂
20	CHOH	CH ₂	-C(O)NMe ₂
21	C(Me)OH	CH ₂	-C(O)NMe ₂
22	C(O)	CH(Me)	-C(O)NMe ₂
23	CHOH	CH(Me)	-C(O)NMe ₂
24	C(Me)OH	CH(Me)	-C(O)NMe ₂
25	C(O)	CH ₂	5-tetrazolyl
26	CHOH	CH ₂	5-tetrazolyl
27	C(Me)OH	CH ₂	5-tetrazolyl
28	C(O)	CH(Me)	5-tetrazolyl
29	CHOH	CH(Me)	5-tetrazolyl
30	C(Me)OH	CH(Me)	5-tetrazolyl
31	C(O)	CH ₂	-C(O)-NH-5-tetrazolyl
32	CHOH	CH ₂	-C(O)-NH-5-tetrazolyl
33	C(Me)OH	CH ₂	-C(O)-NH-5-tetrazolyl

-441-

34	C(O)	CH(Me)	-C(O)-NH-5-tetrazolyl
35	CHOH	CH(Me)	-C(O)-NH-5-tetrazolyl
36	C(Me)OH	CH(Me)	-C(O)-NH-5-tetrazolyl
37	C(O)	CH ₂	-C(O)NHCH ₂ SO ₂ Me
38	CHOH	CH ₂	-C(O)NHCH ₂ SO ₂ Me
39	C(Me)OH	CH ₂	-C(O)NHCH ₂ SO ₂ Me
40	C(O)	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
41	CHOH	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
42	C(Me)OH	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
43	C(O)	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me
44	CHOH	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me
45	C(Me)OH	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me
46	C(O)	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
47	CHOH	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
48	C(Me)OH	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
49	C(O)	CH ₂	-C(O)NHSO ₂ Me
50	CHOH	CH ₂	-C(O)NHSO ₂ Me
51	C(Me)OH	CH ₂	-C(O)NHSO ₂ Me
52	C(O)	CH(Me)	-C(O)NHSO ₂ Me
53	CHOH	CH(Me)	-C(O)NHSO ₂ Me
54	C(Me)OH	CH(Me)	-C(O)NHSO ₂ Me
55	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
56	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
57	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
58	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
59	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
60	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
61	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
62	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
63	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
64	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr

-442-

65	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr
66	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr
67	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
68	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
69	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
70	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
71	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
72	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
73	C(O)	CH ₂	-CH ₂ NHSO ₂ Me
74	CHOH	CH ₂	-CH ₂ NHSO ₂ Me
75	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ Me
76	C(O)	CH(Me)	-CH ₂ NHSO ₂ Me
77	CHOH	CH(Me)	-CH ₂ NHSO ₂ Me
78	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ Me
79	C(O)	CH ₂	-CH ₂ NHSO ₂ Et
80	CHOH	CH ₂	-CH ₂ NHSO ₂ Et
81	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ Et
82	C(O)	CH(Me)	-CH ₂ NHSO ₂ Et
83	CHOH	CH(Me)	-CH ₂ NHSO ₂ Et
84	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ Et
85	C(O)	CH ₂	-CH ₂ NHSO ₂ iPr
86	CHOH	CH ₂	-CH ₂ NHSO ₂ iPr
87	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ iPr
88	C(O)	CH(Me)	-CH ₂ NHSO ₂ iPr
89	CHOH	CH(Me)	-CH ₂ NHSO ₂ iPr
90	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ iPr
91	C(O)	CH ₂	-CH ₂ NHSO ₂ tBu
92	CHOH	CH ₂	-CH ₂ NHSO ₂ tBu
93	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ tBu
94	C(O)	CH(Me)	-CH ₂ NHSO ₂ tBu
95	CHOH	CH(Me)	-CH ₂ NHSO ₂ tBu

-443-

96	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ tBu
97	C(O)	CH ₂	-CH ₂ -N-pyrrolidin-2-one
98	CHOH	CH ₂	-CH ₂ -N-pyrrolidin-2-one
99	C(Me)OH	CH ₂	-CH ₂ -N-pyrrolidin-2-one
100	C(O)	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
101	CHOH	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
102	C(Me)OH	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
103	C(O)	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
104	CHOH	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
105	C(Me)OH	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
106	C(O)	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
107	CHOH	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
108	C(Me)OH	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
109	C(O)	CH ₂	-CH ₂ CO ₂ Me
110	CHOH	CH ₂	-CH ₂ CO ₂ Me
111	C(Me)OH	CH ₂	-CH ₂ CO ₂ Me
112	C(O)	CH(Me)	-CH ₂ CO ₂ Me
113	CHOH	CH(Me)	-CH ₂ CO ₂ Me
114	C(Me)OH	CH(Me)	-CH ₂ CO ₂ Me
115	C(O)	CH ₂	-CH ₂ CO ₂ H
116	CHOH	CH ₂	-CH ₂ CO ₂ H
117	C(Me)OH	CH ₂	-CH ₂ CO ₂ H
118	C(O)	CH(Me)	-CH ₂ CO ₂ H
119	CHOH	CH(Me)	-CH ₂ CO ₂ H
120	C(Me)OH	CH(Me)	-CH ₂ CO ₂ H
121	C(O)	CH ₂	-CH ₂ C(O)NH ₂
122	CHOH	CH ₂	-CH ₂ C(O)NH ₂
123	C(Me)OH	CH ₂	-CH ₂ C(O)NH ₂
124	C(O)	CH(Me)	-CH ₂ C(O)NH ₂
125	CHOH	CH(Me)	-CH ₂ C(O)NH ₂
126	C(Me)OH	CH(Me)	-CH ₂ C(O)NH ₂

-444-

127	C(O)	CH ₂	-CH ₂ C(O)NMe ₂
128	CHOH	CH ₂	-CH ₂ C(O)NMe ₂
129	C(Me)OH	CH ₂	-CH ₂ C(O)NMe ₂
130	C(O)	CH(Me)	-CH ₂ C(O)NMe ₂
131	CHOH	CH(Me)	-CH ₂ C(O)NMe ₂
132	C(Me)OH	CH(Me)	-CH ₂ C(O)NMe ₂
133	C(O)	CH ₂	-CH ₂ C(O)-N-pyrrolidine
134	CHOH	CH ₂	-CH ₂ C(O)-N-pyrrolidine
135	C(Me)OH	CH ₂	-CH ₂ C(O)-N-pyrrolidine
136	C(O)	CH(Me)	-CH ₂ C(O)-N-pyrrolidine
137	CHOH	CH(Me)	-CH ₂ C(O)-N-pyrrolidine
138	C(Me)OH	CH(Me)	-CH ₂ C(O)-N-pyrrolidine
139	C(O)	CH ₂	-CH ₂ -5-tetrazolyl
140	CHOH	CH ₂	-CH ₂ -5-tetrazolyl
141	C(Me)OH	CH ₂	-CH ₂ -5-tetrazolyl
142	C(O)	CH(Me)	-CH ₂ -5-tetrazolyl
143	CHOH	CH(Me)	-CH ₂ -5-tetrazolyl
144	C(Me)OH	CH(Me)	-CH ₂ -5-tetrazolyl
145	C(O)	CH ₂	-C(O)C(O)OH
146	CHOH	CH ₂	-C(O)C(O)OH
147	C(Me)OH	CH ₂	-C(O)C(O)OH
148	C(O)	CH(Me)	-C(O)C(O)OH
149	CHOH	CH(Me)	-C(O)C(O)OH
150	C(Me)OH	CH(Me)	-C(O)C(O)OH
151	C(O)	CH ₂	-CH(OH)C(O)OH
152	CHOH	CH ₂	-CH(OH)C(O)OH
153	C(Me)OH	CH ₂	-CH(OH)C(O)OH
154	C(O)	CH(Me)	-CH(OH)C(O)OH
155	CHOH	CH(Me)	-CH(OH)C(O)OH
156	C(Me)OH	CH(Me)	-CH(OH)C(O)OH
157	C(O)	CH ₂	-C(O)C(O)NH ₂

158	CHOH	CH ₂	-C(O)C(O)NH ₂
159	C(Me)OH	CH ₂	-C(O)C(O)NH ₂
160	C(O)	CH(Me)	-C(O)C(O)NH ₂
161	CHOH	CH(Me)	-C(O)C(O)NH ₂
162	C(Me)OH	CH(Me)	-C(O)C(O)NH ₂
163	C(O)	CH ₂	-CH(OH)C(O)NH ₂
164	CHOH	CH ₂	-CH(OH)C(O)NH ₂
165	C(Me)OH	CH ₂	-CH(OH)C(O)NH ₂
166	C(O)	CH(Me)	-CH(OH)C(O)NH ₂
167	CHOH	CH(Me)	-CH(OH)C(O)NH ₂
168	C(Me)OH	CH(Me)	-CH(OH)C(O)NH ₂
169	C(O)	CH ₂	-C(O)C(O)NMe ₂
170	CHOH	CH ₂	-C(O)C(O)NMe ₂
171	C(Me)OH	CH ₂	-C(O)C(O)NMe ₂
172	C(O)	CH(Me)	-C(O)C(O)NMe ₂
173	CHOH	CH(Me)	-C(O)C(O)NMe ₂
174	C(Me)OH	CH(Me)	-C(O)C(O)NMe ₂
175	C(O)	CH ₂	-CH(OH)C(O)NMe ₂
176	CHOH	CH ₂	-CH(OH)C(O)NMe ₂
177	C(Me)OH	CH ₂	-CH(OH)C(O)NMe ₂
178	C(O)	CH(Me)	-CH(OH)C(O)NMe ₂
179	CHOH	CH(Me)	-CH(OH)C(O)NMe ₂
180	C(Me)OH	CH(Me)	-CH(OH)C(O)NMe ₂
181	C(O)	CH ₂	-CH ₂ CH ₂ CO ₂ H
182	CHOH	CH ₂	-CH ₂ CH ₂ CO ₂ H
183	C(Me)OH	CH ₂	-CH ₂ CH ₂ CO ₂ H
184	C(O)	CH(Me)	-CH ₂ CH ₂ CO ₂ H
185	CHOH	CH(Me)	-CH ₂ CH ₂ CO ₂ H
186	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CO ₂ H
187	C(O)	CH ₂	-CH ₂ CH ₂ C(O)NH ₂
188	CHOH	CH ₂	-CH ₂ CH ₂ C(O)NH ₂

189	C(Me)OH	CH ₂	-CH ₂ CH ₂ C(O)NH ₂
190	C(O)	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
191	CHOH	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
192	C(Me)OH	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
193	C(O)	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
194	CHOH	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
195	C(Me)OH	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
196	C(O)	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
197	CHOH	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
198	C(Me)OH	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
199	C(O)	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl
200	CHOH	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl
201	C(Me)OH	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl
202	C(O)	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
203	CHOH	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
204	C(Me)OH	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
205	C(O)	CH ₂	-CH ₂ S(O) ₂ Me
206	CHOH	CH ₂	-CH ₂ S(O) ₂ Me
207	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ Me
208	C(O)	CH(Me)	-CH ₂ S(O) ₂ Me
209	CHOH	CH(Me)	-CH ₂ S(O) ₂ Me
210	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ Me
211	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
212	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
213	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
214	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
215	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
216	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
217	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
218	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
219	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me

-447-

220	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
221	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
222	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
223	C(O)	CH ₂	-CH ₂ S(O) ₂ Et
224	CHOH	CH ₂	-CH ₂ S(O) ₂ Et
225	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ Et
226	C(O)	CH(Me)	-CH ₂ S(O) ₂ Et
227	CHOH	CH(Me)	-CH ₂ S(O) ₂ Et
228	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ Et
229	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
230	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
231	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
232	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
233	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
234	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
235	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
236	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
237	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
238	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
239	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
240	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
241	C(O)	CH ₂	-CH ₂ S(O) ₂ iPr
242	CHOH	CH ₂	-CH ₂ S(O) ₂ iPr
243	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ iPr
244	C(O)	CH(Me)	-CH ₂ S(O) ₂ iPr
245	CHOH	CH(Me)	-CH ₂ S(O) ₂ iPr
246	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ iPr
247	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
248	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
249	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
250	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr

251	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr
252	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr
253	C(O)	CH ₂	-CH ₂ S(O) ₂ tBu
254	CHOH	CH ₂	-CH ₂ S(O) ₂ tBu
255	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ tBu
256	C(O)	CH(Me)	-CH ₂ S(O) ₂ tBu
257	CHOH	CH(Me)	-CH ₂ S(O) ₂ tBu
258	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ tBu
259	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
260	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
261	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
262	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
263	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
264	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
265	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
266	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
267	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
268	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
269	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
270	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
271	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
272	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
273	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
274	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂
275	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂
276	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂
277	C(O)	CH ₂	-C(O)CH ₂ S(O) ₂ Me
278	CHOH	CH ₂	-C(O)CH ₂ S(O) ₂ Me
279	C(Me)OH	CH ₂	-C(O)CH ₂ S(O) ₂ Me
280	C(O)	CH(Me)	-C(O)CH ₂ S(O) ₂ Me
281	CHOH	CH(Me)	-C(O)CH ₂ S(O) ₂ Me

282	C(Me)OH	CH(Me)	-C(O)CH ₂ S(O) ₂ Me
283	C(O)	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
284	CHOH	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
285	C(Me)OH	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
286	C(O)	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
287	CHOH	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
288	C(Me)OH	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
289	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
290	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
291	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
292	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
293	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
294	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
295	C(O)	CH ₂	-S(O) ₂ Me
296	CHOH	CH ₂	-S(O) ₂ Me
297	C(Me)OH	CH ₂	-S(O) ₂ Me
298	C(O)	CH(Me)	-S(O) ₂ Me
299	CHOH	CH(Me)	-S(O) ₂ Me
300	C(Me)OH	CH(Me)	-S(O) ₂ Me
301	C(O)	CH ₂	-S(O) ₂ Et
302	CHOH	CH ₂	-S(O) ₂ Et
303	C(Me)OH	CH ₂	-S(O) ₂ Et
304	C(O)	CH(Me)	-S(O) ₂ Et
305	CHOH	CH(Me)	-S(O) ₂ Et
306	C(Me)OH	CH(Me)	-S(O) ₂ Et
307	C(O)	CH ₂	-S(O) ₂ iPr
308	CHOH	CH ₂	-S(O) ₂ iPr
309	C(Me)OH	CH ₂	-S(O) ₂ iPr
310	C(O)	CH(Me)	-S(O) ₂ iPr
311	CHOH	CH(Me)	-S(O) ₂ iPr
312	C(Me)OH	CH(Me)	-S(O) ₂ iPr

-450-

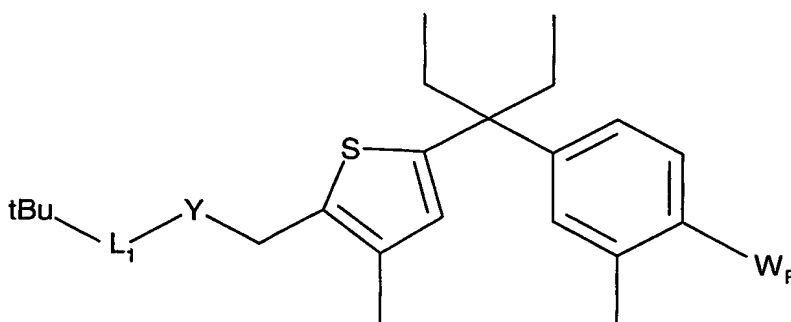
313	C(O)	CH ₂	-S(O) ₂ tBu
314	CHOH	CH ₂	-S(O) ₂ tBu
315	C(Me)OH	CH ₂	-S(O) ₂ tBu
316	C(O)	CH(Me)	-S(O) ₂ tBu
317	CHOH	CH(Me)	-S(O) ₂ tBu
318	C(Me)OH	CH(Me)	-S(O) ₂ tBu
319	C(O)	CH ₂	-S(O) ₂ NH ₂
320	CHOH	CH ₂	-S(O) ₂ NH ₂
321	C(Me)OH	CH ₂	-S(O) ₂ NH ₂
322	C(O)	CH(Me)	-S(O) ₂ NH ₂
323	CHOH	CH(Me)	-S(O) ₂ NH ₂
324	C(Me)OH	CH(Me)	-S(O) ₂ NH ₂
325	C(O)	CH ₂	-S(O) ₂ NMe ₂
326	CHOH	CH ₂	-S(O) ₂ NMe ₂
327	C(Me)OH	CH ₂	-S(O) ₂ NMe ₂
328	C(O)	CH(Me)	-S(O) ₂ NMe ₂
329	CHOH	CH(Me)	-S(O) ₂ NMe ₂
330	C(Me)OH	CH(Me)	-S(O) ₂ NMe ₂
331	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
332	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
333	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
334	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
335	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
336	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
337	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
338	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
339	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
340	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
341	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
342	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
343	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr

-451-

344	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr
345	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr
346	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
347	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
348	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
349	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
350	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
351	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
352	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
353	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
354	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
355	C(O)	CH ₂	-C(O)NHCH ₂ CO ₂ H
356	CHOH	CH ₂	-C(O)NHCH ₂ CO ₂ H
357	C(Me)OH	CH ₂	-C(O)NHCH ₂ CO ₂ H
358	C(O)	CH(Me)	-C(O)NHCH ₂ CO ₂ H
359	CHOH	CH(Me)	-C(O)NHCH ₂ CO ₂ H
360	C(Me)OH	CH(Me)	-C(O)NHCH ₂ CO ₂ H
361	C(O)	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
362	CHOH	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
363	C(Me)OH	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
364	C(O)	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
365	CHOH	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
366	C(Me)OH	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
366	C(Me)OH	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
367	C(O)	CH ₂	-CH ₂ -S-Me
368	CHOH	CH ₂	-CH ₂ -S-Me
369	C(Me)OH	CH ₂	-CH ₂ -S-Me
370	C(O)	CH(Me)	-CH ₂ -S-Me
371	CHOH	CH(Me)	-CH ₂ -S-Me
372	C(Me)OH	CH(Me)	-CH ₂ -S-Me

-452-

8. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically acceptable salt thereof, represented by the formula:



wherein said compound is selected from a compound code numbered 1A thru 516A, with each compound having the specific selection of groups L_1 , Y, and W_p shown in the row following the code number, as set out in the following Table 2:

Table 2

Code	L_1	Y	W_p
1A	C(O)	CH ₂	-CO ₂ Me
2A	CHOH	CH ₂	-CO ₂ Me
3A	C(Me)OH	CH ₂	-CO ₂ Me
4A	C(O)	CH(Me)	-CO ₂ Me
5A	CHOH	CH(Me)	-CO ₂ Me
6A	C(Me)OH	CH(Me)	-CO ₂ Me
7A	C(O)	CH ₂	-CO ₂ H
8A	CHOH	CH ₂	-CO ₂ H
9A	C(Me)OH	CH ₂	-CO ₂ H
10A	C(O)	CH(Me)	-CO ₂ H
11A	CHOH	CH(Me)	-CO ₂ H
12A	C(Me)OH	CH(Me)	-CO ₂ H
13A	C(O)	CH ₂	-C(O)NH ₂

-453-

14A	CHOH	CH ₂	-C(O)NH ₂
15A	C(Me)OH	CH ₂	-C(O)NH ₂
16A	C(O)	CH(Me)	-C(O)NH ₂
17A	CHOH	CH(Me)	-C(O)NH ₂
18A	C(Me)OH	CH(Me)	-C(O)NH ₂
19A	C(O)	CH ₂	-C(O)NMe ₂
20A	CHOH	CH ₂	-C(O)NMe ₂
21A	C(Me)OH	CH ₂	-C(O)NMe ₂
22A	C(O)	CH(Me)	-C(O)NMe ₂
23A	CHOH	CH(Me)	-C(O)NMe ₂
24A	C(Me)OH	CH(Me)	-C(O)NMe ₂
25A	C(O)	CH ₂	5-tetrazolyl
26A	CHOH	CH ₂	5-tetrazolyl
27A	C(Me)OH	CH ₂	5-tetrazolyl
28A	C(O)	CH(Me)	5-tetrazolyl
29A	CHOH	CH(Me)	5-tetrazolyl
30A	C(Me)OH	CH(Me)	5-tetrazolyl
31A	C(O)	CH ₂	-C(O)-NH-5-tetrazolyl
32A	CHOH	CH ₂	-C(O)-NH-5-tetrazolyl
33A	C(Me)OH	CH ₂	-C(O)-NH-5-tetrazolyl
34A	C(O)	CH(Me)	-C(O)-NH-5-tetrazolyl
35A	CHOH	CH(Me)	-C(O)-NH-5-tetrazolyl
36A	C(Me)OH	CH(Me)	-C(O)-NH-5-tetrazolyl
37A	C(O)	CH ₂	-C(O)NHCH ₂ SO ₂ Me
38A	CHOH	CH ₂	-C(O)NHCH ₂ SO ₂ Me
39A	C(Me)OH	CH ₂	-C(O)NHCH ₂ SO ₂ Me
40A	C(O)	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
41A	CHOH	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
42A	C(Me)OH	CH(Me)	-C(O)NHCH ₂ SO ₂ Me
43A	C(O)	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me
44A	CHOH	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me

45A	C(Me)OH	CH ₂	-C(O)NHCH ₂ CH ₂ SO ₂ Me
46A	C(O)	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
47A	CHOH	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
48A	C(Me)OH	CH(Me)	-C(O)NHCH ₂ CH ₂ SO ₂ Me
49A	C(O)	CH ₂	-C(O)NHSO ₂ Me
50A	CHOH	CH ₂	-C(O)NHSO ₂ Me
51A	C(Me)OH	CH ₂	-C(O)NHSO ₂ Me
52A	C(O)	CH(Me)	-C(O)NHSO ₂ Me
53A	CHOH	CH(Me)	-C(O)NHSO ₂ Me
54A	C(Me)OH	CH(Me)	-C(O)NHSO ₂ Me
55A	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
56A	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
57A	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ Et
58A	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
59A	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
60A	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ Et
61A	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
62A	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
63A	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ iPr
64A	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr
65A	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr
66A	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ iPr
67A	C(O)	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
68A	CHOH	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
69A	C(Me)OH	CH ₂	-CH ₂ -C(O)NHSO ₂ tBu
70A	C(O)	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
71A	CHOH	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
72A	C(Me)OH	CH(Me)	-CH ₂ -C(O)NHSO ₂ tBu
73A	C(O)	CH ₂	-CH ₂ NHSO ₂ Me
74A	CHOH	CH ₂	-CH ₂ NHSO ₂ Me
75A	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ Me

76A	C(O)	CH(Me)	-CH ₂ NHSO ₂ Me
77A	CHOH	CH(Me)	-CH ₂ NHSO ₂ Me
78A	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ Me
79A	C(O)	CH ₂	-CH ₂ NHSO ₂ Et
80A	CHOH	CH ₂	-CH ₂ NHSO ₂ Et
81A	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ Et
82A	C(O)	CH(Me)	-CH ₂ NHSO ₂ Et
83A	CHOH	CH(Me)	-CH ₂ NHSO ₂ Et
84A	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ Et
85A	C(O)	CH ₂	-CH ₂ NHSO ₂ iPr
86A	CHOH	CH ₂	-CH ₂ NHSO ₂ iPr
87A	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ iPr
88A	C(O)	CH(Me)	-CH ₂ NHSO ₂ iPr
89A	CHOH	CH(Me)	-CH ₂ NHSO ₂ iPr
90A	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ iPr
91A	C(O)	CH ₂	-CH ₂ NHSO ₂ tBu
92A	CHOH	CH ₂	-CH ₂ NHSO ₂ tBu
93A	C(Me)OH	CH ₂	-CH ₂ NHSO ₂ tBu
94A	C(O)	CH(Me)	-CH ₂ NHSO ₂ tBu
95A	CHOH	CH(Me)	-CH ₂ NHSO ₂ tBu
96A	C(Me)OH	CH(Me)	-CH ₂ NHSO ₂ tBu
97A	C(O)	CH ₂	-CH ₂ -N-pyrrolidin-2-one
98A	CHOH	CH ₂	-CH ₂ -N-pyrrolidin-2-one
99A	C(Me)OH	CH ₂	-CH ₂ -N-pyrrolidin-2-one
100A	C(O)	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
101A	CHOH	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
102A	C(Me)OH	CH(Me)	-CH ₂ -N-pyrrolidin-2-one
103A	C(O)	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
104A	CHOH	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
105A	C(Me)OH	CH ₂	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
106A	C(O)	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)

107A	CHOH	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
108A	C(Me)OH	CH(Me)	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
109A	C(O)	CH ₂	-CH ₂ CO ₂ Me
110A	CHOH	CH ₂	-CH ₂ CO ₂ Me
111A	C(Me)OH	CH ₂	-CH ₂ CO ₂ Me
112A	C(O)	CH(Me)	-CH ₂ CO ₂ Me
113A	CHOH	CH(Me)	-CH ₂ CO ₂ Me
114A	C(Me)OH	CH(Me)	-CH ₂ CO ₂ Me
115A	C(O)	CH ₂	-CH ₂ CO ₂ H
116A	CHOH	CH ₂	-CH ₂ CO ₂ H
117A	C(Me)OH	CH ₂	-CH ₂ CO ₂ H
118A	C(O)	CH(Me)	-CH ₂ CO ₂ H
119A	CHOH	CH(Me)	-CH ₂ CO ₂ H
120A	C(Me)OH	CH(Me)	-CH ₂ CO ₂ H
121A	C(O)	CH ₂	-CH ₂ C(O)NH ₂
122A	CHOH	CH ₂	-CH ₂ C(O)NH ₂
123A	C(Me)OH	CH ₂	-CH ₂ C(O)NH ₂
124A	C(O)	CH(Me)	-CH ₂ C(O)NH ₂
125A	CHOH	CH(Me)	-CH ₂ C(O)NH ₂
126A	C(Me)OH	CH(Me)	-CH ₂ C(O)NH ₂
127A	C(O)	CH ₂	-CH ₂ C(O)NMe ₂
128A	CHOH	CH ₂	-CH ₂ C(O)NMe ₂
129A	C(Me)OH	CH ₂	-CH ₂ C(O)NMe ₂
130A	C(O)	CH(Me)	-CH ₂ C(O)NMe ₂
131A	CHOH	CH(Me)	-CH ₂ C(O)NMe ₂
132A	C(Me)OH	CH(Me)	-CH ₂ C(O)NMe ₂
133A	C(O)	CH ₂	-CH ₂ C(O)-N-pyrrolidine
134A	CHOH	CH ₂	-CH ₂ C(O)-N-pyrrolidine
135A	C(Me)OH	CH ₂	-CH ₂ C(O)-N-pyrrolidine
136A	C(O)	CH(Me)	-CH ₂ C(O)-N-pyrrolidine
137A	CHOH	CH(Me)	-CH ₂ C(O)-N-pyrrolidine

-457-

138A	C(Me)OH	CH(Me)	-CH ₂ C(O)-N-pyrrolidine
139A	C(O)	CH ₂	-CH ₂ -5-tetrazolyl
140A	CHOH	CH ₂	-CH ₂ -5-tetrazolyl
141A	C(Me)OH	CH ₂	-CH ₂ -5-tetrazolyl
142A	C(O)	CH(Me)	-CH ₂ -5-tetrazolyl
143A	CHOH	CH(Me)	-CH ₂ -5-tetrazolyl
144A	C(Me)OH	CH(Me)	-CH ₂ -5-tetrazolyl
145A	C(O)	CH ₂	-C(O)C(O)OH
146A	CHOH	CH ₂	-C(O)C(O)OH
147A	C(Me)OH	CH ₂	-C(O)C(O)OH
148A	C(O)	CH(Me)	-C(O)C(O)OH
149A	CHOH	CH(Me)	-C(O)C(O)OH
150A	C(Me)OH	CH(Me)	-C(O)C(O)OH
151A	C(O)	CH ₂	-CH(OH)C(O)OH
152A	CHOH	CH ₂	-CH(OH)C(O)OH
153A	C(Me)OH	CH ₂	-CH(OH)C(O)OH
154A	C(O)	CH(Me)	-CH(OH)C(O)OH
155A	CHOH	CH(Me)	-CH(OH)C(O)OH
156A	C(Me)OH	CH(Me)	-CH(OH)C(O)OH
157A	C(O)	CH ₂	-C(O)C(O)NH ₂
158A	CHOH	CH ₂	-C(O)C(O)NH ₂
159A	C(Me)OH	CH ₂	-C(O)C(O)NH ₂
160A	C(O)	CH(Me)	-C(O)C(O)NH ₂
161A	CHOH	CH(Me)	-C(O)C(O)NH ₂
162A	C(Me)OH	CH(Me)	-C(O)C(O)NH ₂
163A	C(O)	CH ₂	-CH(OH)C(O)NH ₂
164A	CHOH	CH ₂	-CH(OH)C(O)NH ₂
165A	C(Me)OH	CH ₂	-CH(OH)C(O)NH ₂
166A	C(O)	CH(Me)	-CH(OH)C(O)NH ₂
167A	CHOH	CH(Me)	-CH(OH)C(O)NH ₂
168A	C(Me)OH	CH(Me)	-CH(OH)C(O)NH ₂

169A	C(O)	CH ₂	-C(O)C(O)NMe ₂
170A	CHOH	CH ₂	-C(O)C(O)NMe ₂
171A	C(Me)OH	CH ₂	-C(O)C(O)NMe ₂
172A	C(O)	CH(Me)	-C(O)C(O)NMe ₂
173A	CHOH	CH(Me)	-C(O)C(O)NMe ₂
174A	C(Me)OH	CH(Me)	-C(O)C(O)NMe ₂
175A	C(O)	CH ₂	-CH(OH)C(O)NMe ₂
176A	CHOH	CH ₂	-CH(OH)C(O)NMe ₂
177A	C(Me)OH	CH ₂	-CH(OH)C(O)NMe ₂
178A	C(O)	CH(Me)	-CH(OH)C(O)NMe ₂
179A	CHOH	CH(Me)	-CH(OH)C(O)NMe ₂
180A	C(Me)OH	CH(Me)	-CH(OH)C(O)NMe ₂
181A	C(O)	CH ₂	-CH ₂ CH ₂ CO ₂ H
182A	CHOH	CH ₂	-CH ₂ CH ₂ CO ₂ H
183A	C(Me)OH	CH ₂	-CH ₂ CH ₂ CO ₂ H
184A	C(O)	CH(Me)	-CH ₂ CH ₂ CO ₂ H
185A	CHOH	CH(Me)	-CH ₂ CH ₂ CO ₂ H
186A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CO ₂ H
187A	C(O)	CH ₂	-CH ₂ CH ₂ C(O)NH ₂
188A	CHOH	CH ₂	-CH ₂ CH ₂ C(O)NH ₂
189A	C(Me)OH	CH ₂	-CH ₂ CH ₂ C(O)NH ₂
190A	C(O)	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
191A	CHOH	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
192A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ C(O)NH ₂
193A	C(O)	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
194A	CHOH	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
195A	C(Me)OH	CH ₂	-CH ₂ CH ₂ C(O)NMe ₂
196A	C(O)	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
197A	CHOH	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
198A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ C(O)NMe ₂
199A	C(O)	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl

200A	CHOH	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl
201A	C(Me)OH	CH ₂	-CH ₂ CH ₂ -5-tetrazolyl
202A	C(O)	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
203A	CHOH	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
204A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ -5-tetrazolyl
205A	C(O)	CH ₂	-OCH ₂ S(O) ₂ Me
206A	CHOH	CH ₂	-OCH ₂ S(O) ₂ Me
207A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ Me
208A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ Me
209A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ Me
210A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ Me
211A	C(O)	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Me
212A	CHOH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Me
213A	C(Me)OH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Me
214A	C(O)	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Me
215A	CHOH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Me
216A	C(Me)OH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Me
217A	C(O)	CH ₂	-CH ₂ S(O) ₂ Me
218A	CHOH	CH ₂	-CH ₂ S(O) ₂ Me
219A	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ Me
220A	C(O)	CH(Me)	-CH ₂ S(O) ₂ Me
221A	CHOH	CH(Me)	-CH ₂ S(O) ₂ Me
222A	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ Me
223A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
224A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
225A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Me
226A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
227A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
228A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Me
229A	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
230A	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me

231A	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
232A	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
233A	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
234A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
235A	C(O)	CH ₂	-OCH ₂ S(O) ₂ Et
236A	CHOH	CH ₂	-OCH ₂ S(O) ₂ Et
237A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ Et
238A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ Et
239A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ Et
240A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ Et
241A	C(O)	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Et
242A	CHOH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Et
243A	C(Me)OH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ Et
244A	C(O)	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Et
245A	CHOH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Et
246A	C(Me)OH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ Et
247A	C(O)	CH ₂	-CH ₂ S(O) ₂ Et
248A	CHOH	CH ₂	-CH ₂ S(O) ₂ Et
249A	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ Et
250A	C(O)	CH(Me)	-CH ₂ S(O) ₂ Et
251A	CHOH	CH(Me)	-CH ₂ S(O) ₂ Et
252A	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ Et
253A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
254A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
255A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ Et
256A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
257A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
258A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ Et
259A	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
260A	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
261A	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et

-461-

262A	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
263A	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
264A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
265A	C(O)	CH ₂	-OCH ₂ S(O) ₂ iPr
266A	CHOH	CH ₂	-OCH ₂ S(O) ₂ iPr
267A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ iPr
268A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ iPr
269A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ iPr
270A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ iPr
271A	C(O)	CH ₂	-CH ₂ S(O) ₂ iPr
272A	CHOH	CH ₂	-CH ₂ S(O) ₂ iPr
273A	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ iPr
274A	C(O)	CH(Me)	-CH ₂ S(O) ₂ iPr
275A	CHOH	CH(Me)	-CH ₂ S(O) ₂ iPr
276A	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ iPr
277A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
278A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
279A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ iPr
280A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr
281A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr
282A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ iPr
283A	C(O)	CH ₂	-OCH ₂ S(O) ₂ tBu
284A	CHOH	CH ₂	-OCH ₂ S(O) ₂ tBu
285A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ tBu
286A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ tBu
287A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ tBu
288A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ tBu
289A	C(O)	CH ₂	-CH ₂ S(O) ₂ tBu
290A	CHOH	CH ₂	-CH ₂ S(O) ₂ tBu
291A	C(Me)OH	CH ₂	-CH ₂ S(O) ₂ tBu
292A	C(O)	CH(Me)	-CH ₂ S(O) ₂ tBu

293A	CHOH	CH(Me)	-CH ₂ S(O) ₂ tBu
294A	C(Me)OH	CH(Me)	-CH ₂ S(O) ₂ tBu
295A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
296A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
297A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ tBu
298A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
299A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
300A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ tBu
301A	C(O)	CH ₂	-OCH ₂ S(O) ₂ NH ₂
302A	CHOH	CH ₂	-OCH ₂ S(O) ₂ NH ₂
303A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ NH ₂
304A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ NH ₂
305A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ NH ₂
306A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ NH ₂
307A	C(O)	CH ₂	-OCH ₂ S(O) ₂ NMe ₂
308A	CHOH	CH ₂	-OCH ₂ S(O) ₂ NMe ₂
309A	C(Me)OH	CH ₂	-OCH ₂ S(O) ₂ NMe ₂
310A	C(O)	CH(Me)	-OCH ₂ S(O) ₂ NMe ₂
311A	CHOH	CH(Me)	-OCH ₂ S(O) ₂ NMe ₂
312A	C(Me)OH	CH(Me)	-OCH ₂ S(O) ₂ NMe ₂
313A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
314A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
315A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NH ₂
316A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
317A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
318A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NH ₂
319A	C(O)	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
320A	CHOH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
321A	C(Me)OH	CH ₂	-CH ₂ CH ₂ S(O) ₂ NMe ₂
322A	C(O)	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂
323A	CHOH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂

324A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ S(O) ₂ NMe ₂
325A	C(O)	CH ₂	-C(O)CH ₂ S(O) ₂ Me
326A	CHOH	CH ₂	-C(O)CH ₂ S(O) ₂ Me
327A	C(Me)OH	CH ₂	-C(O)CH ₂ S(O) ₂ Me
328A	C(O)	CH(Me)	-C(O)CH ₂ S(O) ₂ Me
329A	CHOH	CH(Me)	-C(O)CH ₂ S(O) ₂ Me
330A	C(Me)OH	CH(Me)	-C(O)CH ₂ S(O) ₂ Me
331A	C(O)	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
332A	CHOH	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
333A	C(Me)OH	CH ₂	-C(O)CH ₂ CH ₂ S(O) ₂ Me
334A	C(O)	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
335A	CHOH	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
336A	C(Me)OH	CH(Me)	-C(O)CH ₂ CH ₂ S(O) ₂ Me
337A	C(O)	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NH ₂
338A	CHOH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NH ₂
339A	C(Me)OH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NH ₂
340A	C(O)	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NH ₂
341A	CHOH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NH ₂
342A	C(Me)OH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NH ₂
343A	C(O)	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
344A	CHOH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
345A	C(Me)OH	CH ₂	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
346A	C(O)	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
347A	CHOH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
348A	C(Me)OH	CH(Me)	-OCH ₂ CH ₂ S(O) ₂ NMe ₂
349A	C(O)	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
350A	CHOH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
351A	C(Me)OH	CH ₂	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
352A	C(O)	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
353A	CHOH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
354A	C(Me)OH	CH(Me)	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂

-464-

355A	C(O)	CH ₂	-S(O) ₂ Me
356A	CHOH	CH ₂	-S(O) ₂ Me
357A	C(Me)OH	CH ₂	-S(O) ₂ Me
358A	C(O)	CH(Me)	-S(O) ₂ Me
359A	CHOH	CH(Me)	-S(O) ₂ Me
360A	C(Me)OH	CH(Me)	-S(O) ₂ Me
361A	C(O)	CH ₂	-S(O) ₂ Et
362A	CHOH	CH ₂	-S(O) ₂ Et
363A	C(Me)OH	CH ₂	-S(O) ₂ Et
364A	C(O)	CH(Me)	-S(O) ₂ Et
365A	CHOH	CH(Me)	-S(O) ₂ Et
366A	C(Me)OH	CH(Me)	-S(O) ₂ Et
367A	C(O)	CH ₂	-S(O) ₂ iPr
368A	CHOH	CH ₂	-S(O) ₂ iPr
369A	C(Me)OH	CH ₂	-S(O) ₂ iPr
370A	C(O)	CH(Me)	-S(O) ₂ iPr
371A	CHOH	CH(Me)	-S(O) ₂ iPr
372A	C(Me)OH	CH(Me)	-S(O) ₂ iPr
373A	C(O)	CH ₂	-S(O) ₂ tBu
374A	CHOH	CH ₂	-S(O) ₂ tBu
375A	C(Me)OH	CH ₂	-S(O) ₂ tBu
376A	C(O)	CH(Me)	-S(O) ₂ tBu
377A	CHOH	CH(Me)	-S(O) ₂ tBu
378A	C(Me)OH	CH(Me)	-S(O) ₂ tBu
379A	C(O)	CH ₂	-OCH ₂ CO ₂ H
380A	CHOH	CH ₂	-OCH ₂ CO ₂ H
381A	C(Me)OH	CH ₂	-OCH ₂ CO ₂ H
382A	C(O)	CH(Me)	-OCH ₂ CO ₂ H
383A	CHOH	CH(Me)	-OCH ₂ CO ₂ H
384A	C(Me)OH	CH(Me)	-OCH ₂ CO ₂ H
385A	C(O)	CH ₂	-OCH ₂ -5-tetrazolyl

386A	CHOH	CH ₂	-OCH ₂ -5-tetrazolyl
387A	C(Me)OH	CH ₂	-OCH ₂ -5-tetrazolyl
388A	C(O)	CH(Me)	-OCH ₂ -5-tetrazolyl
389A	CHOH	CH(Me)	-OCH ₂ -5-tetrazolyl
390A	C(Me)OH	CH(Me)	-OCH ₂ -5-tetrazolyl
391A	C(O)	CH ₂	-S(O) ₂ NH ₂
392A	CHOH	CH ₂	-S(O) ₂ NH ₂
393A	C(Me)OH	CH ₂	-S(O) ₂ NH ₂
394A	C(O)	CH(Me)	-S(O) ₂ NH ₂
395A	CHOH	CH(Me)	-S(O) ₂ NH ₂
396A	C(Me)OH	CH(Me)	-S(O) ₂ NH ₂
397A	C(O)	CH ₂	-S(O) ₂ NMe ₂
398A	CHOH	CH ₂	-S(O) ₂ NMe ₂
399A	C(Me)OH	CH ₂	-S(O) ₂ NMe ₂
400A	C(O)	CH(Me)	-S(O) ₂ NMe ₂
401A	CHOH	CH(Me)	-S(O) ₂ NMe ₂
402A	C(Me)OH	CH(Me)	-S(O) ₂ NMe ₂
403A	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
404A	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
405A	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Me
406A	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
407A	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
408A	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Me
409A	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
410A	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
411A	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ Et
412A	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
413A	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
414A	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ Et
415A	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr
416A	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr

-466-

417A	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ iPr
418A	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
419A	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
420A	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ iPr
421A	C(O)	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
422A	CHOH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
423A	C(Me)OH	CH ₂	-S(O) ₂ CH ₂ S(O) ₂ tBu
424A	C(O)	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
425A	CHOH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
426A	C(Me)OH	CH(Me)	-S(O) ₂ CH ₂ S(O) ₂ tBu
427A	C(O)	CH ₂	-NHS(O) ₂ Me
428A	CHOH	CH ₂	-NHS(O) ₂ Me
429A	C(Me)OH	CH ₂	-NHS(O) ₂ Me
430A	C(O)	CH(Me)	-NHS(O) ₂ Me
431A	CHOH	CH(Me)	-NHS(O) ₂ Me
432A	C(Me)OH	CH(Me)	-NHS(O) ₂ Me
433A	C(O)	CH ₂	-NHS(O) ₂ Et
434A	CHOH	CH ₂	-NHS(O) ₂ Et
435A	C(Me)OH	CH ₂	-NHS(O) ₂ Et
436A	C(O)	CH(Me)	-NHS(O) ₂ Et
437A	CHOH	CH(Me)	-NHS(O) ₂ Et
438A	C(Me)OH	CH(Me)	-NHS(O) ₂ Et
439A	C(O)	CH ₂	-NHS(O) ₂ iPr
440A	CHOH	CH ₂	-NHS(O) ₂ iPr
441A	C(Me)OH	CH ₂	-NHS(O) ₂ iPr
442A	C(O)	CH(Me)	-NHS(O) ₂ iPr
443A	CHOH	CH(Me)	-NHS(O) ₂ iPr
444A	C(Me)OH	CH(Me)	-NHS(O) ₂ iPr
445A	C(O)	CH ₂	-NHS(O) ₂ tBu
446A	CHOH	CH ₂	-NHS(O) ₂ tBu
447A	C(Me)OH	CH ₂	-NHS(O) ₂ tBu

-467-

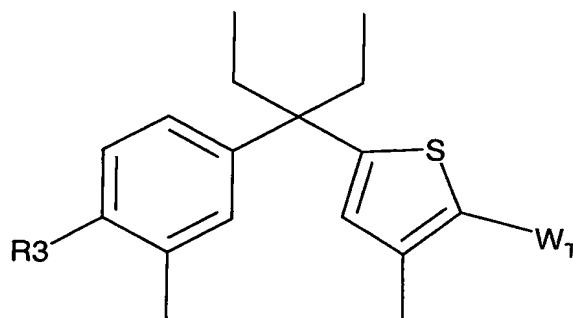
448A	C(O)	CH(Me)	-NHS(O)2tBu
449A	CHOH	CH(Me)	-NHS(O)2tBu
450A	C(Me)OH	CH(Me)	-NHS(O)2tBu
451A	C(O)	CH ₂	-OS(O)2Me
452A	CHOH	CH ₂	-OS(O)2Me
453A	C(Me)OH	CH ₂	-OS(O)2Me
454A	C(O)	CH(Me)	-OS(O)2Me
455A	CHOH	CH(Me)	-OS(O)2Me
456A	C(Me)OH	CH(Me)	-OS(O)2Me
457A	C(O)	CH ₂	-OS(O)2Et
458A	CHOH	CH ₂	-OS(O)2Et
459A	C(Me)OH	CH ₂	-OS(O)2Et
460A	C(O)	CH(Me)	-OS(O)2Et
461A	CHOH	CH(Me)	-OS(O)2Et
462A	C(Me)OH	CH(Me)	-OS(O)2Et
463A	C(O)	CH ₂	-OS(O)2iPr
464A	CHOH	CH ₂	-OS(O)2iPr
465A	C(Me)OH	CH ₂	-OS(O)2iPr
466A	C(O)	CH(Me)	-OS(O)2iPr
467A	CHOH	CH(Me)	-OS(O)2iPr
468A	C(Me)OH	CH(Me)	-OS(O)2iPr
469A	C(O)	CH ₂	-OS(O)2tBu
470A	CHOH	CH ₂	-OS(O)2tBu
471A	C(Me)OH	CH ₂	-OS(O)2tBu
472A	C(O)	CH(Me)	-OS(O)2tBu
473A	CHOH	CH(Me)	-OS(O)2tBu
474A	C(Me)OH	CH(Me)	-OS(O)2tBu
475A	C(O)	CH ₂	-NHC(O)NMe ₂
476A	CHOH	CH ₂	-NHC(O)NMe ₂
477A	C(Me)OH	CH ₂	-NHC(O)NMe ₂
478A	C(O)	CH(Me)	-NHC(O)NMe ₂

479A	CHOH	CH(Me)	-NHC(O)NMe ₂
480A	C(Me)OH	CH(Me)	-NHC(O)NMe ₂
481A	C(O)	CH ₂	-NHC(S)NMe ₂
482A	CHOH	CH ₂	-NHC(S)NMe ₂
483A	C(Me)OH	CH ₂	-NHC(S)NMe ₂
484A	C(O)	CH(Me)	-NHC(S)NMe ₂
485A	CHOH	CH(Me)	-NHC(S)NMe ₂
486A	C(Me)OH	CH(Me)	-NHC(S)NMe ₂
487A	C(O)	CH ₂	-OC(O)NMe ₂
488A	CHOH	CH ₂	-OC(O)NMe ₂
489A	C(Me)OH	CH ₂	-OC(O)NMe ₂
490A	C(O)	CH(Me)	-OC(O)NMe ₂
491A	CHOH	CH(Me)	-OC(O)NMe ₂
492A	C(Me)OH	CH(Me)	-OC(O)NMe ₂
493A	C(O)	CH ₂	-OC(S)NMe ₂
494A	CHOH	CH ₂	-OC(S)NMe ₂
495A	C(Me)OH	CH ₂	-OC(S)NMe ₂
496A	C(O)	CH(Me)	-OC(S)NMe ₂
497A	CHOH	CH(Me)	-OC(S)NMe ₂
498A	C(Me)OH	CH(Me)	-OC(S)NMe ₂
499A	C(O)	CH ₂	-NHS(O) ₂ NMe ₂
500A	CHOH	CH ₂	-NHS(O) ₂ NMe ₂
501A	C(Me)OH	CH ₂	-NHS(O) ₂ NMe ₂
502A	C(O)	CH(Me)	-NHS(O) ₂ NMe ₂
503A	CHOH	CH(Me)	-NHS(O) ₂ NMe ₂
504A	C(Me)OH	CH(Me)	-NHS(O) ₂ NMe ₂
505A	C(O)	CH ₂	-C(O)NHCH ₂ CO ₂ H
506A	CHOH	CH ₂	-C(O)NHCH ₂ CO ₂ H
507A	C(Me)OH	CH ₂	-C(O)NHCH ₂ CO ₂ H
508A	C(O)	CH(Me)	-C(O)NHCH ₂ CO ₂ H
509A	CHOH	CH(Me)	-C(O)NHCH ₂ CO ₂ H

-469-

510A	C(Me)OH	CH(Me)	-C(O)NHCH ₂ CO ₂ H
511A	C(O)	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
512A	CHOH	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
513A	C(Me)OH	CH ₂	-SO ₂ NHCH ₂ CO ₂ H
514A	C(O)	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
515A	CHOH	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
516A	C(Me)OH	CH(Me)	-SO ₂ NHCH ₂ CO ₂ H
517A	C(O)	CH ₂	-CH ₂ -S-Me
518A	CHOH	CH ₂	-CH ₂ -S-Me
519A	C(Me)OH	CH ₂	-CH ₂ -S-Me
520A	C(O)	CH(Me)	-CH ₂ -S-Me
521A	CHOH	CH(Me)	-CH ₂ -S-Me
522A	C(Me)OH	CH(Me)	-CH ₂ -S-Me

9. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or pharmaceutically acceptable salt thereof represented by the formula:



wherein said compound is selected from a compound code numbered 1B thru 516B, with each compound having the specific selection of groups R₃, and W_T shown in the row following the code number, as set out in the following Table 3:

-470-

Table 3

Code	R3	W _T
1B	3Me3OH-Pentyl	-CO ₂ Me
2B	3Me3OH-Pentenyl	-CO ₂ Me
3B	3Me3OH-Pentynyl	-CO ₂ Me
4B	3Et3OH-Pentyl	-CO ₂ Me
5B	3Et3OH-Pentenyl	-CO ₂ Me
6B	3Et3OH-Pentynyl	-CO ₂ Me
7B	3Me3OH-Pentyl	-CO ₂ H
8B	3Me3OH-Pentenyl	-CO ₂ H
9B	3Me3OH-Pentynyl	-CO ₂ H
10B	3Et3OH-Pentyl	-CO ₂ H
11B	3Et3OH-Pentenyl	-CO ₂ H
12B	3Et3OH-Pentynyl	-CO ₂ H
13B	3Me3OH-Pentyl	-C(O)NH ₂
14B	3Me3OH-Pentenyl	-C(O)NH ₂
15B	3Me3OH-Pentynyl	-C(O)NH ₂
16B	3Et3OH-Pentyl	-C(O)NH ₂
17B	3Et3OH-Pentenyl	-C(O)NH ₂
18B	3Et3OH-Pentynyl	-C(O)NH ₂
19B	3Me3OH-Pentyl	-C(O)NMe ₂
20B	3Me3OH-Pentenyl	-C(O)NMe ₂
21B	3Me3OH-Pentynyl	-C(O)NMe ₂
22B	3Et3OH-Pentyl	-C(O)NMe ₂
23B	3Et3OH-Pentenyl	-C(O)NMe ₂
24B	3Et3OH-Pentynyl	-C(O)NMe ₂
25B	3Me3OH-Pentyl	5-tetrazolyl
26B	3Me3OH-Pentenyl	5-tetrazolyl
27B	3Me3OH-Pentynyl	5-tetrazolyl
28B	3Et3OH-Pentyl	5-tetrazolyl
29B	3Et3OH-Pentenyl	5-tetrazolyl

-471-

30B	3Et3OH-Pentynyl	5-tetrazolyl
31B	3Me3OH-Pentyl	-C(O)-NH-5-tetrazolyl
32B	3Me3OH-Pentenyl	-C(O)-NH-5-tetrazolyl
33B	3Me3OH-Pentynyl	-C(O)-NH-5-tetrazolyl
34B	3Et3OH-Pentyl	-C(O)-NH-5-tetrazolyl
35B	3Et3OH-Pentenyl	-C(O)-NH-5-tetrazolyl
36B	3Et3OH-Pentynyl	-C(O)-NH-5-tetrazolyl
37B	3Me3OH-Pentyl	-C(O)NHCH ₂ SO ₂ Me
38B	3Me3OH-Pentenyl	-C(O)NHCH ₂ SO ₂ Me
39B	3Me3OH-Pentynyl	-C(O)NHCH ₂ SO ₂ Me
40B	3Et3OH-Pentyl	-C(O)NHCH ₂ SO ₂ Me
41B	3Et3OH-Pentenyl	-C(O)NHCH ₂ SO ₂ Me
42B	3Et3OH-Pentynyl	-C(O)NHCH ₂ SO ₂ Me
43B	3Me3OH-Pentyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
44B	3Me3OH-Pentenyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
45B	3Me3OH-Pentynyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
46B	3Et3OH-Pentyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
47B	3Et3OH-Pentenyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
48B	3Et3OH-Pentynyl	-C(O)NHCH ₂ CH ₂ SO ₂ Me
49B	3Me3OH-Pentyl	-C(O)NHSO ₂ Me
50B	3Me3OH-Pentenyl	-C(O)NHSO ₂ Me
51B	3Me3OH-Pentynyl	-C(O)NHSO ₂ Me
52B	3Et3OH-Pentyl	-C(O)NHSO ₂ Me
53B	3Et3OH-Pentenyl	-C(O)NHSO ₂ Me
54B	3Et3OH-Pentynyl	-C(O)NHSO ₂ Me
55B	3Me3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ Et
56B	3Me3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ Et
57B	3Me3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ Et
58B	3Et3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ Et
59B	3Et3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ Et
60B	3Et3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ Et

- 472 -

61B	3Me3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ iPr
62B	3Me3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ iPr
63B	3Me3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ iPr
64B	3Et3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ iPr
65B	3Et3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ iPr
66B	3Et3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ iPr
67B	3Me3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ tBu
68B	3Me3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ tBu
69B	3Me3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ tBu
70B	3Et3OH-Pentyl	-CH ₂ -C(O)NHSO ₂ tBu
71B	3Et3OH-Pentenyl	-CH ₂ -C(O)NHSO ₂ tBu
72B	3Et3OH-Pentynyl	-CH ₂ -C(O)NHSO ₂ tBu
73B	3Me3OH-Pentyl	-CH ₂ NHSO ₂ Me
74B	3Me3OH-Pentenyl	-CH ₂ NHSO ₂ Me
75B	3Me3OH-Pentynyl	-CH ₂ NHSO ₂ Me
76B	3Et3OH-Pentyl	-CH ₂ NHSO ₂ Me
77B	3Et3OH-Pentenyl	-CH ₂ NHSO ₂ Me
78B	3Et3OH-Pentynyl	-CH ₂ NHSO ₂ Me
79B	3Me3OH-Pentyl	-CH ₂ NHSO ₂ Et
80B	3Me3OH-Pentenyl	-CH ₂ NHSO ₂ Et
81B	3Me3OH-Pentynyl	-CH ₂ NHSO ₂ Et
82B	3Et3OH-Pentyl	-CH ₂ NHSO ₂ Et
83B	3Et3OH-Pentenyl	-CH ₂ NHSO ₂ Et
84B	3Et3OH-Pentynyl	-CH ₂ NHSO ₂ Et
85B	3Me3OH-Pentyl	-CH ₂ NHSO ₂ iPr
86B	3Me3OH-Pentenyl	-CH ₂ NHSO ₂ iPr
87B	3Me3OH-Pentynyl	-CH ₂ NHSO ₂ iPr
88B	3Et3OH-Pentyl	-CH ₂ NHSO ₂ iPr
89B	3Et3OH-Pentenyl	-CH ₂ NHSO ₂ iPr
90B	3Et3OH-Pentynyl	-CH ₂ NHSO ₂ iPr
91B	3Me3OH-Pentyl	-CH ₂ NHSO ₂ tBu

-473-

92B	3Me3OH-Pentenyl	-CH ₂ NHSO ₂ tBu
93B	3Me3OH-Pentynyl	-CH ₂ NHSO ₂ tBu
94B	3Et3OH-Pentyl	-CH ₂ NHSO ₂ tBu
95B	3Et3OH-Pentenyl	-CH ₂ NHSO ₂ tBu
96B	3Et3OH-Pentynyl	-CH ₂ NHSO ₂ tBu
97B	3Me3OH-Pentyl	-CH ₂ -N-pyrrolidin-2-one
98B	3Me3OH-Pentenyl	-CH ₂ -N-pyrrolidin-2-one
99B	3Me3OH-Pentynyl	-CH ₂ -N-pyrrolidin-2-one
100B	3Et3OH-Pentyl	-CH ₂ -N-pyrrolidin-2-one
101B	3Et3OH-Pentenyl	-CH ₂ -N-pyrrolidin-2-one
102B	3Et3OH-Pentynyl	-CH ₂ -N-pyrrolidin-2-one
103B	3Me3OH-Pentyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
104B	3Me3OH-Pentenyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
105B	3Me3OH-Pentynyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
106B	3Et3OH-Pentyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
107B	3Et3OH-Pentenyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
108B	3Et3OH-Pentynyl	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
109B	3Me3OH-Pentyl	-CH ₂ CO ₂ Me
110B	3Me3OH-Pentenyl	-CH ₂ CO ₂ Me
111B	3Me3OH-Pentynyl	-CH ₂ CO ₂ Me
112B	3Et3OH-Pentyl	-CH ₂ CO ₂ Me
113B	3Et3OH-Pentenyl	-CH ₂ CO ₂ Me
114B	3Et3OH-Pentynyl	-CH ₂ CO ₂ Me
115B	3Me3OH-Pentyl	-CH ₂ CO ₂ H
116B	3Me3OH-Pentenyl	-CH ₂ CO ₂ H
117B	3Me3OH-Pentynyl	-CH ₂ CO ₂ H
118B	3Et3OH-Pentyl	-CH ₂ CO ₂ H
119B	3Et3OH-Pentenyl	-CH ₂ CO ₂ H
120B	3Et3OH-Pentynyl	-CH ₂ CO ₂ H
121B	3Me3OH-Pentyl	-CH ₂ C(O)NH ₂
122B	3Me3OH-Pentenyl	-CH ₂ C(O)NH ₂

- 474 -

123B	3Me3OH-Pentynyl	-CH ₂ C(O)NH ₂
124B	3Et3OH-Pentyl	-CH ₂ C(O)NH ₂
125B	3Et3OH-Pentenyl	-CH ₂ C(O)NH ₂
126B	3Et3OH-Pentynyl	-CH ₂ C(O)NH ₂
127B	3Me3OH-Pentyl	-CH ₂ C(O)NMe ₂
128B	3Me3OH-Pentenyl	-CH ₂ C(O)NMe ₂
129B	3Me3OH-Pentynyl	-CH ₂ C(O)NMe ₂
130B	3Et3OH-Pentyl	-CH ₂ C(O)NMe ₂
131B	3Et3OH-Pentenyl	-CH ₂ C(O)NMe ₂
132B	3Et3OH-Pentynyl	-CH ₂ C(O)NMe ₂
133B	3Me3OH-Pentyl	-CH ₂ C(O)-N-pyrrolidine
134B	3Me3OH-Pentenyl	-CH ₂ C(O)-N-pyrrolidine
135B	3Me3OH-Pentynyl	-CH ₂ C(O)-N-pyrrolidine
136B	3Et3OH-Pentyl	-CH ₂ C(O)-N-pyrrolidine
137B	3Et3OH-Pentenyl	-CH ₂ C(O)-N-pyrrolidine
138B	3Et3OH-Pentynyl	-CH ₂ C(O)-N-pyrrolidine
139B	3Me3OH-Pentyl	-CH ₂ -5-tetrazolyl
140B	3Me3OH-Pentenyl	-CH ₂ -5-tetrazolyl
141B	3Me3OH-Pentynyl	-CH ₂ -5-tetrazolyl
142B	3Et3OH-Pentyl	-CH ₂ -5-tetrazolyl
143B	3Et3OH-Pentenyl	-CH ₂ -5-tetrazolyl
144B	3Et3OH-Pentynyl	-CH ₂ -5-tetrazolyl
145B	3Me3OH-Pentyl	-C(O)C(O)OH
146B	3Me3OH-Pentenyl	-C(O)C(O)OH
147B	3Me3OH-Pentynyl	-C(O)C(O)OH
148B	3Et3OH-Pentyl	-C(O)C(O)OH
149B	3Et3OH-Pentenyl	-C(O)C(O)OH
150B	3Et3OH-Pentynyl	-C(O)C(O)OH
151B	3Me3OH-Pentyl	-CH(OH)C(O)OH
152B	3Me3OH-Pentenyl	-CH(OH)C(O)OH
153B	3Me3OH-Pentynyl	-CH(OH)C(O)OH

-475-

154B	3Et3OH-Pentyl	-CH(OH)C(O)OH
155B	3Et3OH-Pentenyl	-CH(OH)C(O)OH
156B	3Et3OH-Pentynyl	-CH(OH)C(O)OH
157B	3Me3OH-Pentyl	-C(O)C(O)NH ₂
158B	3Me3OH-Pentenyl	-C(O)C(O)NH ₂
159B	3Me3OH-Pentynyl	-C(O)C(O)NH ₂
160B	3Et3OH-Pentyl	-C(O)C(O)NH ₂
161B	3Et3OH-Pentenyl	-C(O)C(O)NH ₂
162B	3Et3OH-Pentynyl	-C(O)C(O)NH ₂
163B	3Me3OH-Pentyl	-CH(OH)C(O)NH ₂
164B	3Me3OH-Pentenyl	-CH(OH)C(O)NH ₂
165B	3Me3OH-Pentynyl	-CH(OH)C(O)NH ₂
166B	3Et3OH-Pentyl	-CH(OH)C(O)NH ₂
167B	3Et3OH-Pentenyl	-CH(OH)C(O)NH ₂
168B	3Et3OH-Pentynyl	-CH(OH)C(O)NH ₂
169B	3Me3OH-Pentyl	-C(O)C(O)NMe ₂
170B	3Me3OH-Pentenyl	-C(O)C(O)NMe ₂
171B	3Me3OH-Pentynyl	-C(O)C(O)NMe ₂
172B	3Et3OH-Pentyl	-C(O)C(O)NMe ₂
173B	3Et3OH-Pentenyl	-C(O)C(O)NMe ₂
174B	3Et3OH-Pentynyl	-C(O)C(O)NMe ₂
175B	3Me3OH-Pentyl	-CH(OH)C(O)NMe ₂
176B	3Me3OH-Pentenyl	-CH(OH)C(O)NMe ₂
177B	3Me3OH-Pentynyl	-CH(OH)C(O)NMe ₂
178B	3Et3OH-Pentyl	-CH(OH)C(O)NMe ₂
179B	3Et3OH-Pentenyl	-CH(OH)C(O)NMe ₂
180B	3Et3OH-Pentynyl	-CH(OH)C(O)NMe ₂
181B	3Me3OH-Pentyl	-CH ₂ CH ₂ CO ₂ H
182B	3Me3OH-Pentenyl	-CH ₂ CH ₂ CO ₂ H
183B	3Me3OH-Pentynyl	-CH ₂ CH ₂ CO ₂ H
184B	3Et3OH-Pentyl	-CH ₂ CH ₂ CO ₂ H

- 476 -

185B	3Et3OH-Pentenyl	-CH ₂ CH ₂ CO ₂ H
186B	3Et3OH-Pentynyl	-CH ₂ CH ₂ CO ₂ H
187B	3Me3OH-Pentyl	-CH ₂ CH ₂ C(O)NH ₂
188B	3Me3OH-Pentenyl	-CH ₂ CH ₂ C(O)NH ₂
189B	3Me3OH-Pentynyl	-CH ₂ CH ₂ C(O)NH ₂
190B	3Et3OH-Pentyl	-CH ₂ CH ₂ C(O)NH ₂
191B	3Et3OH-Pentenyl	-CH ₂ CH ₂ C(O)NH ₂
192B	3Et3OH-Pentynyl	-CH ₂ CH ₂ C(O)NH ₂
193B	3Me3OH-Pentyl	-CH ₂ CH ₂ C(O)NMe ₂
194B	3Me3OH-Pentenyl	-CH ₂ CH ₂ C(O)NMe ₂
195B	3Me3OH-Pentynyl	-CH ₂ CH ₂ C(O)NMe ₂
196B	3Et3OH-Pentyl	-CH ₂ CH ₂ C(O)NMe ₂
197B	3Et3OH-Pentenyl	-CH ₂ CH ₂ C(O)NMe ₂
198B	3Et3OH-Pentynyl	-CH ₂ CH ₂ C(O)NMe ₂
199B	3Me3OH-Pentyl	-CH ₂ CH ₂ -5-tetrazolyl
200B	3Me3OH-Pentenyl	-CH ₂ CH ₂ -5-tetrazolyl
201B	3Me3OH-Pentynyl	-CH ₂ CH ₂ -5-tetrazolyl
202B	3Et3OH-Pentyl	-CH ₂ CH ₂ -5-tetrazolyl
203B	3Et3OH-Pentenyl	-CH ₂ CH ₂ -5-tetrazolyl
204B	3Et3OH-Pentynyl	-CH ₂ CH ₂ -5-tetrazolyl
205B	3Me3OH-Pentyl	-CH ₂ S(O) ₂ Me
206B	3Me3OH-Pentenyl	-CH ₂ S(O) ₂ Me
207B	3Me3OH-Pentynyl	-CH ₂ S(O) ₂ Me
208B	3Et3OH-Pentyl	-CH ₂ S(O) ₂ Me
209B	3Et3OH-Pentenyl	-CH ₂ S(O) ₂ Me
210B	3Et3OH-Pentynyl	-CH ₂ S(O) ₂ Me
211B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O) ₂ Me
212B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O) ₂ Me
213B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O) ₂ Me
214B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O) ₂ Me
215B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O) ₂ Me

- 477 -

216B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O) ₂ Me
217B	3Me3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
218B	3Me3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
219B	3Me3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
220B	3Et3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
221B	3Et3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
222B	3Et3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
223B	3Me3OH-Pentyl	-CH ₂ S(O) ₂ Et
224B	3Me3OH-Pentenyl	-CH ₂ S(O) ₂ Et
225B	3Me3OH-Pentynyl	-CH ₂ S(O) ₂ Et
226B	3Et3OH-Pentyl	-CH ₂ S(O) ₂ Et
227B	3Et3OH-Pentenyl	-CH ₂ S(O) ₂ Et
228B	3Et3OH-Pentynyl	-CH ₂ S(O) ₂ Et
229B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O) ₂ Et
230B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O) ₂ Et
231B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O) ₂ Et
232B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O) ₂ Et
233B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O) ₂ Et
234B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O) ₂ Et
235B	3Me3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
236B	3Me3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
237B	3Me3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
238B	3Et3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
239B	3Et3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
240B	3Et3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
241B	3Me3OH-Pentyl	-CH ₂ S(O) ₂ iPr
242B	3Me3OH-Pentenyl	-CH ₂ S(O) ₂ iPr
243B	3Me3OH-Pentynyl	-CH ₂ S(O) ₂ iPr
244B	3Et3OH-Pentyl	-CH ₂ S(O) ₂ iPr
245B	3Et3OH-Pentenyl	-CH ₂ S(O) ₂ iPr
246B	3Et3OH-Pentynyl	-CH ₂ S(O) ₂ iPr

- 478 -

247B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O)2iPr
248B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O)2iPr
249B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O)2iPr
250B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O)2iPr
251B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O)2iPr
252B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O)2iPr
253B	3Me3OH-Pentyl	-CH ₂ S(O)2tBu
254B	3Me3OH-Pentenyl	-CH ₂ S(O)2tBu
255B	3Me3OH-Pentynyl	-CH ₂ S(O)2tBu
256B	3Et3OH-Pentyl	-CH ₂ S(O)2tBu
257B	3Et3OH-Pentenyl	-CH ₂ S(O)2tBu
258B	3Et3OH-Pentynyl	-CH ₂ S(O)2tBu
259B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O)2tBu
260B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O)2tBu
261B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O)2tBu
262B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O)2tBu
263B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O)2tBu
264B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O)2tBu
265B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O)2NH ₂
266B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O)2NH ₂
267B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O)2NH ₂
268B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O)2NH ₂
269B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O)2NH ₂
270B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O)2NH ₂
271B	3Me3OH-Pentyl	-CH ₂ CH ₂ S(O)2NMe ₂
272B	3Me3OH-Pentenyl	-CH ₂ CH ₂ S(O)2NMe ₂
273B	3Me3OH-Pentynyl	-CH ₂ CH ₂ S(O)2NMe ₂
274B	3Et3OH-Pentyl	-CH ₂ CH ₂ S(O)2NMe ₂
275B	3Et3OH-Pentenyl	-CH ₂ CH ₂ S(O)2NMe ₂
276B	3Et3OH-Pentynyl	-CH ₂ CH ₂ S(O)2NMe ₂
277B	3Me3OH-Pentyl	-C(O)CH ₂ S(O)2Me

- 479 -

278B	3Me3OH-Pentenyl	-C(O)CH ₂ S(O) ₂ Me
279B	3Me3OH-Pentynyl	-C(O)CH ₂ S(O) ₂ Me
280B	3Et3OH-Pentyl	-C(O)CH ₂ S(O) ₂ Me
281B	3Et3OH-Pentenyl	-C(O)CH ₂ S(O) ₂ Me
282B	3Et3OH-Pentynyl	-C(O)CH ₂ S(O) ₂ Me
283B	3Me3OH-Pentyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
284B	3Me3OH-Pentenyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
285B	3Me3OH-Pentynyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
286B	3Et3OH-Pentyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
287B	3Et3OH-Pentenyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
288B	3Et3OH-Pentynyl	-C(O)CH ₂ CH ₂ S(O) ₂ Me
289B	3Me3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
290B	3Me3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
291B	3Me3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
292B	3Et3OH-Pentyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
293B	3Et3OH-Pentenyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
294B	3Et3OH-Pentynyl	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
295B	3Me3OH-Pentyl	-S(O) ₂ Me
296B	3Me3OH-Pentenyl	-S(O) ₂ Me
297B	3Me3OH-Pentynyl	-S(O) ₂ Me
298B	3Et3OH-Pentyl	-S(O) ₂ Me
299B	3Et3OH-Pentenyl	-S(O) ₂ Me
300B	3Et3OH-Pentynyl	-S(O) ₂ Me
301B	3Me3OH-Pentyl	-S(O) ₂ Et
302B	3Me3OH-Pentenyl	-S(O) ₂ Et
303B	3Me3OH-Pentynyl	-S(O) ₂ Et
304B	3Et3OH-Pentyl	-S(O) ₂ Et
305B	3Et3OH-Pentenyl	-S(O) ₂ Et
306B	3Et3OH-Pentynyl	-S(O) ₂ Et
307B	3Me3OH-Pentyl	-S(O) ₂ iPr
308B	3Me3OH-Pentenyl	-S(O) ₂ iPr

- 480 -

309B	3Me3OH-Pentynyl	-S(O)2iPr
310B	3Et3OH-Pentyl	-S(O)2iPr
311B	3Et3OH-Pentenyl	-S(O)2iPr
312B	3Et3OH-Pentynyl	-S(O)2iPr
313B	3Me3OH-Pentyl	-S(O)2tBu
314B	3Me3OH-Pentenyl	-S(O)2tBu
315B	3Me3OH-Pentynyl	-S(O)2tBu
316B	3Et3OH-Pentyl	-S(O)2tBu
317B	3Et3OH-Pentenyl	-S(O)2tBu
318B	3Et3OH-Pentynyl	-S(O)2tBu
319B	3Me3OH-Pentyl	-S(O)2NH2
320B	3Me3OH-Pentenyl	-S(O)2NH2
321B	3Me3OH-Pentynyl	-S(O)2NH2
322B	3Et3OH-Pentyl	-S(O)2NH2
323B	3Et3OH-Pentenyl	-S(O)2NH2
324B	3Et3OH-Pentynyl	-S(O)2NH2
325B	3Me3OH-Pentyl	-S(O)2NMe2
326B	3Me3OH-Pentenyl	-S(O)2NMe2
327B	3Me3OH-Pentynyl	-S(O)2NMe2
328B	3Et3OH-Pentyl	-S(O)2NMe2
329B	3Et3OH-Pentenyl	-S(O)2NMe2
330B	3Et3OH-Pentynyl	-S(O)2NMe2
331B	3Me3OH-Pentyl	-S(O)2CH2S(O)2Me
332B	3Me3OH-Pentenyl	-S(O)2CH2S(O)2Me
333B	3Me3OH-Pentynyl	-S(O)2CH2S(O)2Me
334B	3Et3OH-Pentyl	-S(O)2CH2S(O)2Me
335B	3Et3OH-Pentenyl	-S(O)2CH2S(O)2Me
336B	3Et3OH-Pentynyl	-S(O)2CH2S(O)2Me
337B	3Me3OH-Pentyl	-S(O)2CH2S(O)2Et
338B	3Me3OH-Pentenyl	-S(O)2CH2S(O)2Et
339B	3Me3OH-Pentynyl	-S(O)2CH2S(O)2Et

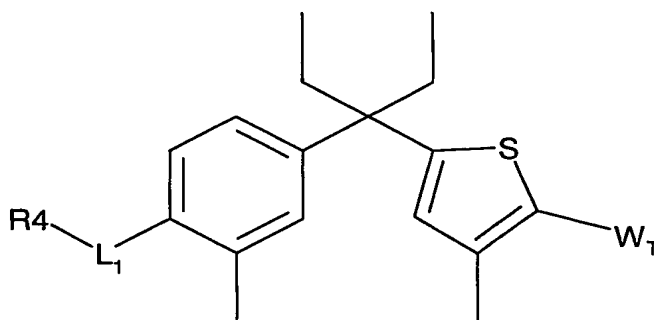
- 481 -

340B	3Et3OH-Pentyl	-S(O)2CH2S(O)2Et
341B	3Et3OH-Pentenyl	-S(O)2CH2S(O)2Et
342B	3Et3OH-Pentynyl	-S(O)2CH2S(O)2Et
343B	3Me3OH-Pentyl	-S(O)2CH2S(O)2iPr
344B	3Me3OH-Pentenyl	-S(O)2CH2S(O)2iPr
345B	3Me3OH-Pentynyl	-S(O)2CH2S(O)2iPr
346B	3Et3OH-Pentyl	-S(O)2CH2S(O)2iPr
347B	3Et3OH-Pentenyl	-S(O)2CH2S(O)2iPr
348B	3Et3OH-Pentynyl	-S(O)2CH2S(O)2iPr
349B	3Me3OH-Pentyl	-S(O)2CH2S(O)2tBu
350B	3Me3OH-Pentenyl	-S(O)2CH2S(O)2tBu
351B	3Me3OH-Pentynyl	-S(O)2CH2S(O)2tBu
352B	3Et3OH-Pentyl	-S(O)2CH2S(O)2tBu
353B	3Et3OH-Pentenyl	-S(O)2CH2S(O)2tBu
354B	3Et3OH-Pentynyl	-S(O)2CH2S(O)2tBu
355B	3Me3OH-Pentyl	-C(O)NHCH2CO2H
356B	3Me3OH-Pentenyl	-C(O)NHCH2CO2H
357B	3Me3OH-Pentynyl	-C(O)NHCH2CO2H
358B	3Et3OH-Pentyl	-C(O)NHCH2CO2H
359B	3Et3OH-Pentenyl	-C(O)NHCH2CO2H
360B	3Et3OH-Pentynyl	-C(O)NHCH2CO2H
361B	3Me3OH-Pentyl	-SO2NHCH2CO2H
362B	3Me3OH-Pentenyl	-SO2NHCH2CO2H
363B	3Me3OH-Pentynyl	-SO2NHCH2CO2H
364B	3Et3OH-Pentyl	-SO2NHCH2CO2H
365B	3Et3OH-Pentenyl	-SO2NHCH2CO2H
366B	3Et3OH-Pentynyl	-SO2NHCH2CO2H
367B	3Me3OH-Pentyl	-CH2-S-Me
368B	3Me3OH-Pentenyl	-CH2-S-Me
369B	3Me3OH-Pentynyl	-CH2-S-Me
370B	3Et3OH-Pentyl	-CH2-S-Me

- 482 -

371B	3Et3OH-Pentenyl	-CH ₂ -S-Me
372B	3Et3OH-Pentynyl	-CH ₂ -S-Me

10. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a compound or a pharmaceutically acceptable salt thereof represented by the formula:



wherein said compound is selected from a compound code numbered 1C thru 516C, with each compound having the specific selection of groups R₄, L₁, and W_T shown in the row following the code number, as set out in the following Table 4:

Table 4

Code	R ₄	L ₁	W _T
1C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CO ₂ Me
2C	1-hydroxycyclopentyl	-C≡C-	-CO ₂ Me
3C	1-hydroxycyclopentyl	-C=C-	-CO ₂ Me
4C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CO ₂ Me
5C	1-hydroxycyclohexyl	-C≡C-	-CO ₂ Me
6C	1-hydroxycyclohexyl	-C=C-	-CO ₂ Me
7C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CO ₂ H
8C	1-hydroxycyclopentyl	-C≡C-	-CO ₂ H
9C	1-hydroxycyclopentyl	-C=C-	-CO ₂ H
10C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CO ₂ H
11C	1-hydroxycyclohexyl	-C≡C-	-CO ₂ H
12C	1-hydroxycyclohexyl	-C=C-	-CO ₂ H

-483-

13C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NH ₂
14C	1-hydroxycyclopentyl	-C≡C-	-C(O)NH ₂
15C	1-hydroxycyclopentyl	-C=C-	-C(O)NH ₂
16C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NH ₂
17C	1-hydroxycyclohexyl	-C≡C-	-C(O)NH ₂
18C	1-hydroxycyclohexyl	-C=C-	-C(O)NH ₂
19C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NMe ₂
20C	1-hydroxycyclopentyl	-C≡C-	-C(O)NMe ₂
21C	1-hydroxycyclopentyl	-C=C-	-C(O)NMe ₂
22C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NMe ₂
23C	1-hydroxycyclohexyl	-C≡C-	-C(O)NMe ₂
24C	1-hydroxycyclohexyl	-C=C-	-C(O)NMe ₂
25C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	5-tetrazolyl
26C	1-hydroxycyclopentyl	-C≡C-	5-tetrazolyl
27C	1-hydroxycyclopentyl	-C=C-	5-tetrazolyl
28C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	5-tetrazolyl
29C	1-hydroxycyclohexyl	-C≡C-	5-tetrazolyl
30C	1-hydroxycyclohexyl	-C=C-	5-tetrazolyl
31C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)-NH-5-tetrazolyl
32C	1-hydroxycyclopentyl	-C≡C-	-C(O)-NH-5-tetrazolyl
33C	1-hydroxycyclopentyl	-C=C-	-C(O)-NH-5-tetrazolyl
34C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)-NH-5-tetrazolyl
35C	1-hydroxycyclohexyl	-C≡C-	-C(O)-NH-5-tetrazolyl
36C	1-hydroxycyclohexyl	-C=C-	-C(O)-NH-5-tetrazolyl
37C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ SO ₂ Me
38C	1-hydroxycyclopentyl	-C≡C-	-C(O)NHCH ₂ SO ₂ Me
39C	1-hydroxycyclopentyl	-C=C-	-C(O)NHCH ₂ SO ₂ Me
40C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ SO ₂ Me
41C	1-hydroxycyclohexyl	-C≡C-	-C(O)NHCH ₂ SO ₂ Me
42C	1-hydroxycyclohexyl	-C=C-	-C(O)NHCH ₂ SO ₂ Me
43C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ CH ₂ SO ₂ Me

- 484 -

44C	1-hydroxycyclopentyl	-C≡C-	-C(O)NHCH ₂ CH ₂ SO ₂ Me
45C	1-hydroxycyclopentyl	-C=C-	-C(O)NHCH ₂ CH ₂ SO ₂ Me
46C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ CH ₂ SO ₂ Me
47C	1-hydroxycyclohexyl	-C≡C-	-C(O)NHCH ₂ CH ₂ SO ₂ Me
48C	1-hydroxycyclohexyl	-C=C-	-C(O)NHCH ₂ CH ₂ SO ₂ Me
49C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NHSO ₂ Me
50C	1-hydroxycyclopentyl	-C≡C-	-C(O)NHSO ₂ Me
51C	1-hydroxycyclopentyl	-C=C-	-C(O)NHSO ₂ Me
52C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NHSO ₂ Me
53C	1-hydroxycyclohexyl	-C≡C-	-C(O)NHSO ₂ Me
54C	1-hydroxycyclohexyl	-C=C-	-C(O)NHSO ₂ Me
55C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ Et
56C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ Et
57C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -C(O)NHSO ₂ Et
58C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ Et
59C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ Et
60C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -C(O)NHSO ₂ Et
61C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ iPr
62C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ iPr
63C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -C(O)NHSO ₂ iPr
64C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ iPr
65C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ iPr
66C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -C(O)NHSO ₂ iPr
67C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ tBu
68C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ tBu
69C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -C(O)NHSO ₂ tBu
70C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -C(O)NHSO ₂ tBu
71C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -C(O)NHSO ₂ tBu
72C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -C(O)NHSO ₂ tBu
73C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ Me
74C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ NHSO ₂ Me

- 485 -

75C	1-hydroxycyclopentyl	-C=C-	-CH ₂ NHSO ₂ Me
76C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ Me
77C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ NHSO ₂ Me
78C	1-hydroxycyclohexyl	-C=C-	-CH ₂ NHSO ₂ Me
79C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ Et
80C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ NHSO ₂ Et
81C	1-hydroxycyclopentyl	-C=C-	-CH ₂ NHSO ₂ Et
82C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ Et
83C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ NHSO ₂ Et
84C	1-hydroxycyclohexyl	-C=C-	-CH ₂ NHSO ₂ Et
85C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ iPr
86C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ NHSO ₂ iPr
87C	1-hydroxycyclopentyl	-C=C-	-CH ₂ NHSO ₂ iPr
88C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ iPr
89C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ NHSO ₂ iPr
90C	1-hydroxycyclohexyl	-C=C-	-CH ₂ NHSO ₂ iPr
91C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ tBu
92C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ NHSO ₂ tBu
93C	1-hydroxycyclopentyl	-C=C-	-CH ₂ NHSO ₂ tBu
94C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ NHSO ₂ tBu
95C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ NHSO ₂ tBu
96C	1-hydroxycyclohexyl	-C=C-	-CH ₂ NHSO ₂ tBu
97C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -N-pyrrolidin-2-one
98C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -N-pyrrolidin-2-one
99C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -N-pyrrolidin-2-one
100C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -N-pyrrolidin-2-one
101C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -N-pyrrolidin-2-one
102C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -N-pyrrolidin-2-one
103C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
104C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
105C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)

- 486 -

106C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
107C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
108C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -(1-methylpyrrolidin-2-one-3-yl)
109C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CO ₂ Me
110C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CO ₂ Me
111C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CO ₂ Me
112C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CO ₂ Me
113C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CO ₂ Me
114C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CO ₂ Me
115C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CO ₂ H
116C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CO ₂ H
117C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CO ₂ H
118C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CO ₂ H
119C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CO ₂ H
120C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CO ₂ H
121C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ C(O)NH ₂
122C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ C(O)NH ₂
123C	1-hydroxycyclopentyl	-C=C-	-CH ₂ C(O)NH ₂
124C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ C(O)NH ₂
125C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ C(O)NH ₂
126C	1-hydroxycyclohexyl	-C=C-	-CH ₂ C(O)NH ₂
127C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ C(O)NMe ₂
128C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ C(O)NMe ₂
129C	1-hydroxycyclopentyl	-C=C-	-CH ₂ C(O)NMe ₂
130C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ C(O)NMe ₂
131C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ C(O)NMe ₂
132C	1-hydroxycyclohexyl	-C=C-	-CH ₂ C(O)NMe ₂
133C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ C(O)-N-pyrrolidine
134C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ C(O)-N-pyrrolidine
135C	1-hydroxycyclopentyl	-C=C-	-CH ₂ C(O)-N-pyrrolidine
136C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ C(O)-N-pyrrolidine

- 487 -

137C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ C(O)-N-pyrrolidine
138C	1-hydroxycyclohexyl	-C=C-	-CH ₂ C(O)-N-pyrrolidine
139C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -5-tetrazolyl
140C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -5-tetrazolyl
141C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -5-tetrazolyl
142C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -5-tetrazolyl
143C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -5-tetrazolyl
144C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -5-tetrazolyl
145C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)C(O)OH
146C	1-hydroxycyclopentyl	-C≡C-	-C(O)C(O)OH
147C	1-hydroxycyclopentyl	-C=C-	-C(O)C(O)OH
148C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)C(O)OH
149C	1-hydroxycyclohexyl	-C≡C-	-C(O)C(O)OH
150C	1-hydroxycyclohexyl	-C=C-	-C(O)C(O)OH
151C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH(OH)C(O)OH
152C	1-hydroxycyclopentyl	-C≡C-	-CH(OH)C(O)OH
153C	1-hydroxycyclopentyl	-C=C-	-CH(OH)C(O)OH
154C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH(OH)C(O)OH
155C	1-hydroxycyclohexyl	-C≡C-	-CH(OH)C(O)OH
156C	1-hydroxycyclohexyl	-C=C-	-CH(OH)C(O)OH
157C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)C(O)NH ₂
158C	1-hydroxycyclopentyl	-C≡C-	-C(O)C(O)NH ₂
159C	1-hydroxycyclopentyl	-C=C-	-C(O)C(O)NH ₂
160C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)C(O)NH ₂
161C	1-hydroxycyclohexyl	-C≡C-	-C(O)C(O)NH ₂
162C	1-hydroxycyclohexyl	-C=C-	-C(O)C(O)NH ₂
163C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH(OH)C(O)NH ₂
164C	1-hydroxycyclopentyl	-C≡C-	-CH(OH)C(O)NH ₂
165C	1-hydroxycyclopentyl	-C=C-	-CH(OH)C(O)NH ₂
166C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH(OH)C(O)NH ₂
167C	1-hydroxycyclohexyl	-C≡C-	-CH(OH)C(O)NH ₂

- 488 -

168C	1-hydroxycyclohexyl	-C=C-	-CH(OH)C(O)NH ₂
169C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)C(O)NMe ₂
170C	1-hydroxycyclopentyl	-C≡C-	-C(O)C(O)NMe ₂
171C	1-hydroxycyclopentyl	-C=C-	-C(O)C(O)NMe ₂
172C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)C(O)NMe ₂
173C	1-hydroxycyclohexyl	-C≡C-	-C(O)C(O)NMe ₂
174C	1-hydroxycyclohexyl	-C=C-	-C(O)C(O)NMe ₂
175C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH(OH)C(O)NMe ₂
176C	1-hydroxycyclopentyl	-C≡C-	-CH(OH)C(O)NMe ₂
177C	1-hydroxycyclopentyl	-C=C-	-CH(OH)C(O)NMe ₂
178C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH(OH)C(O)NMe ₂
179C	1-hydroxycyclohexyl	-C≡C-	-CH(OH)C(O)NMe ₂
180C	1-hydroxycyclohexyl	-C=C-	-CH(OH)C(O)NMe ₂
181C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CO ₂ H
182C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ CO ₂ H
183C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ CO ₂ H
184C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CO ₂ H
185C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ CO ₂ H
186C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ CO ₂ H
187C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ C(O)NH ₂
188C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ C(O)NH ₂
189C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ C(O)NH ₂
190C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ C(O)NH ₂
191C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ C(O)NH ₂
192C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ C(O)NH ₂
193C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ C(O)NMe ₂
194C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ C(O)NMe ₂
195C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ C(O)NMe ₂
196C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ C(O)NMe ₂
197C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ C(O)NMe ₂
198C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ C(O)NMe ₂

- 489 -

199C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ -5-tetrazolyl
200C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ -5-tetrazolyl
201C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ -5-tetrazolyl
202C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ -5-tetrazolyl
203C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ -5-tetrazolyl
204C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ -5-tetrazolyl
205C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ Me
206C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ S(O) ₂ Me
207C	1-hydroxycyclopentyl	-C=C-	-CH ₂ S(O) ₂ Me
208C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ Me
209C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ S(O) ₂ Me
210C	1-hydroxycyclohexyl	-C=C-	-CH ₂ S(O) ₂ Me
211C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ Me
212C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ Me
213C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ Me
214C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ Me
215C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ Me
216C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ Me
217C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
218C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
219C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
220C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
221C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
222C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Me
223C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ Et
224C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ S(O) ₂ Et
225C	1-hydroxycyclopentyl	-C=C-	-CH ₂ S(O) ₂ Et
226C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ Et
227C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ S(O) ₂ Et
228C	1-hydroxycyclohexyl	-C=C-	-CH ₂ S(O) ₂ Et
229C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ Et

- 490 -

230C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ Et
231C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ Et
232C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ Et
233C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ Et
234C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ Et
235C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
236C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
237C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
238C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
239C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
240C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ Et
241C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ iPr
242C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ S(O) ₂ iPr
243C	1-hydroxycyclopentyl	-C=C-	-CH ₂ S(O) ₂ iPr
244C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ iPr
245C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ S(O) ₂ iPr
246C	1-hydroxycyclohexyl	-C=C-	-CH ₂ S(O) ₂ iPr
247C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ iPr
248C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ iPr
249C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ iPr
250C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ iPr
251C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ iPr
252C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ iPr
253C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ tBu
254C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ S(O) ₂ tBu
255C	1-hydroxycyclopentyl	-C=C-	-CH ₂ S(O) ₂ tBu
256C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ S(O) ₂ tBu
257C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ S(O) ₂ tBu
258C	1-hydroxycyclohexyl	-C=C-	-CH ₂ S(O) ₂ tBu
259C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ tBu
260C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ tBu

- 491 -

261C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ tBu
262C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ tBu
263C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ tBu
264C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ tBu
265C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ NH ₂
266C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ NH ₂
267C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ NH ₂
268C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ NH ₂
269C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ NH ₂
270C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ NH ₂
271C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ NMe ₂
272C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ NMe ₂
273C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ NMe ₂
274C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ S(O) ₂ NMe ₂
275C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ S(O) ₂ NMe ₂
276C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ S(O) ₂ NMe ₂
277C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)CH ₂ S(O) ₂ Me
278C	1-hydroxycyclopentyl	-C≡C-	-C(O)CH ₂ S(O) ₂ Me
279C	1-hydroxycyclopentyl	-C=C-	-C(O)CH ₂ S(O) ₂ Me
280C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)CH ₂ S(O) ₂ Me
281C	1-hydroxycyclohexyl	-C≡C-	-C(O)CH ₂ S(O) ₂ Me
282C	1-hydroxycyclohexyl	-C=C-	-C(O)CH ₂ S(O) ₂ Me
283C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)CH ₂ CH ₂ S(O) ₂ Me
284C	1-hydroxycyclopentyl	-C≡C-	-C(O)CH ₂ CH ₂ S(O) ₂ Me
285C	1-hydroxycyclopentyl	-C=C-	-C(O)CH ₂ CH ₂ S(O) ₂ Me
286C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)CH ₂ CH ₂ S(O) ₂ Me
287C	1-hydroxycyclohexyl	-C≡C-	-C(O)CH ₂ CH ₂ S(O) ₂ Me
288C	1-hydroxycyclohexyl	-C=C-	-C(O)CH ₂ CH ₂ S(O) ₂ Me
289C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
290C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
291C	1-hydroxycyclopentyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂

- 492 -

292C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
293C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
294C	1-hydroxycyclohexyl	-C=C-	-CH ₂ CH ₂ CH ₂ S(O) ₂ NH ₂
295C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ Me
296C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ Me
297C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ Me
298C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ Me
299C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ Me
300C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ Me
301C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ Et
302C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ Et
303C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ Et
304C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ Et
305C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ Et
306C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ Et
307C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ iPr
308C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ iPr
309C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ iPr
310C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ iPr
311C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ iPr
312C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ iPr
313C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ tBu
314C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ tBu
315C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ tBu
316C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ tBu
317C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ tBu
318C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ tBu
319C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ NH ₂
320C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ NH ₂
321C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ NH ₂
322C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ NH ₂

323C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ NH ₂
324C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ NH ₂
325C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ NMe ₂
326C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ NMe ₂
327C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ NMe ₂
328C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ NMe ₂
329C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ NMe ₂
330C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ NMe ₂
331C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ Me
332C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ Me
333C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ Me
334C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ Me
335C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ Me
336C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ Me
337C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ Et
338C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ Et
339C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ Et
340C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ Et
341C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ Et
342C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ Et
343C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ iPr
344C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ iPr
345C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ iPr
346C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ iPr
347C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ iPr
348C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ iPr
349C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ tBu
350C	1-hydroxycyclopentyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ tBu
351C	1-hydroxycyclopentyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ tBu
352C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-S(O) ₂ CH ₂ S(O) ₂ tBu
353C	1-hydroxycyclohexyl	-C≡C-	-S(O) ₂ CH ₂ S(O) ₂ tBu

- 494 -

354C	1-hydroxycyclohexyl	-C=C-	-S(O) ₂ CH ₂ S(O) ₂ tBu
355C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ CO ₂ H
356C	1-hydroxycyclopentyl	-C≡C-	-C(O)NHCH ₂ CO ₂ H
357C	1-hydroxycyclopentyl	-C=C-	-C(O)NHCH ₂ CO ₂ H
358C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-C(O)NHCH ₂ CO ₂ H
359C	1-hydroxycyclohexyl	-C≡C-	-C(O)NHCH ₂ CO ₂ H
360C	1-hydroxycyclohexyl	-C=C-	-C(O)NHCH ₂ CO ₂ H
361C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-SO ₂ NHCH ₂ CO ₂ H
362C	1-hydroxycyclopentyl	-C≡C-	-SO ₂ NHCH ₂ CO ₂ H
363C	1-hydroxycyclopentyl	-C=C-	-SO ₂ NHCH ₂ CO ₂ H
364C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-SO ₂ NHCH ₂ CO ₂ H
365C	1-hydroxycyclohexyl	-C≡C-	-SO ₂ NHCH ₂ CO ₂ H
366C	1-hydroxycyclohexyl	-C=C-	-SO ₂ NHCH ₂ CO ₂ H
367C	1-hydroxycyclopentyl	-(CH ₂) ₂ -	-CH ₂ -S-Me
368C	1-hydroxycyclopentyl	-C≡C-	-CH ₂ -S-Me
369C	1-hydroxycyclopentyl	-C=C-	-CH ₂ -S-Me
370C	1-hydroxycyclohexyl	-(CH ₂) ₂ -	-CH ₂ -S-Me
371C	1-hydroxycyclohexyl	-C≡C-	-CH ₂ -S-Me
372C	1-hydroxycyclohexyl	-C=C-	-CH ₂ -S-Me

11. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a pharmaceutically effective amount of a pharmaceutical formulation comprising a compound of claim 1 to 10 together with a pharmaceutically acceptable carrier or diluent therefor.

12. A method of treating a mammal to prevent or alleviate the effect of Mustard by administering a compound of claim 1 to 10 in an amount of from about 0.0001 mg/kg/day to about 50 mg/kg/day of body weight of an active compound of this invention.

-495-

13. Use of the compound of claims 1 to 10 for the manufacture of a medicament for preventing or alleviating the effect of Mustard.